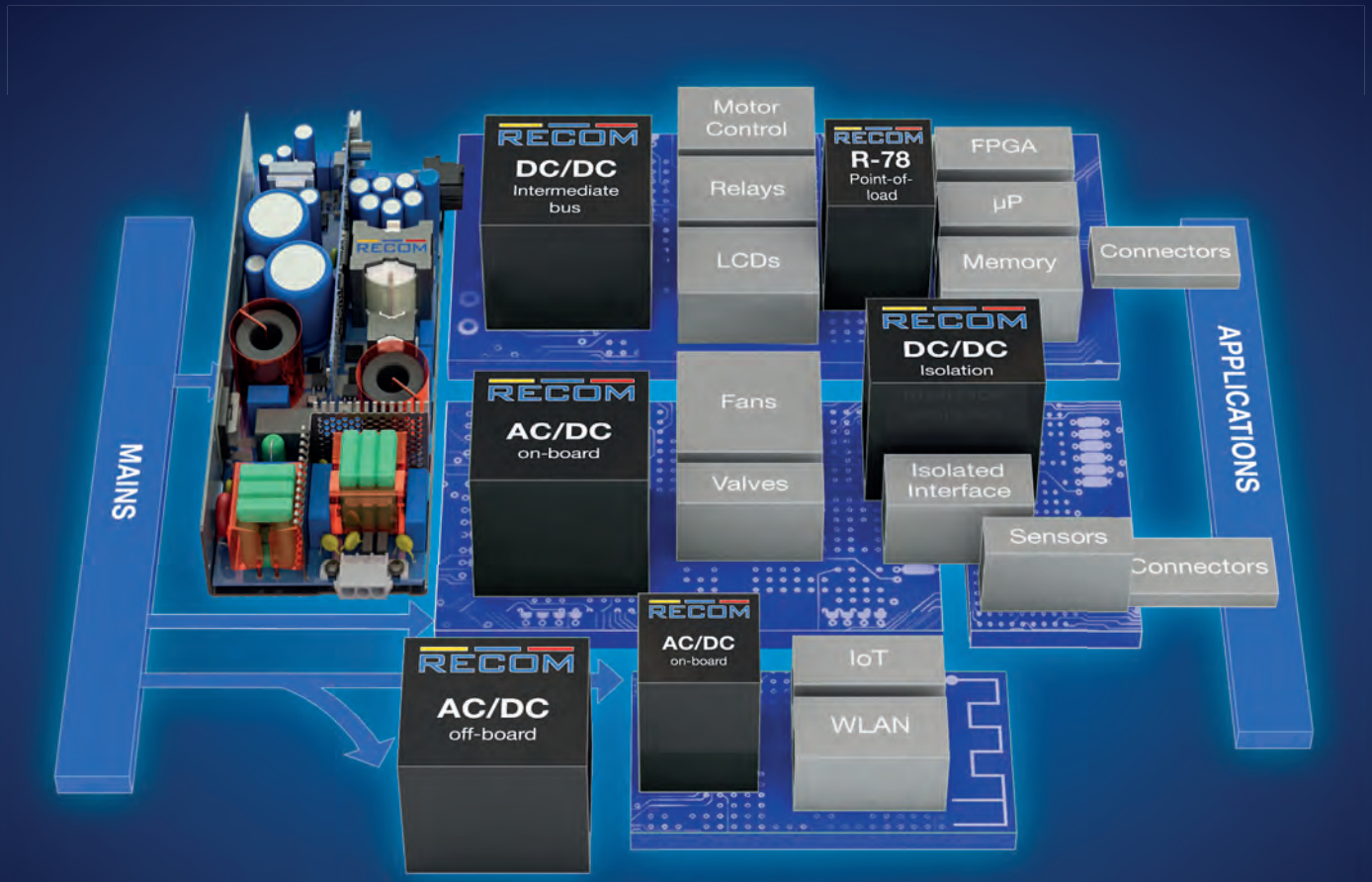
PRODUCT SELECTION GUIDE

AC/DC Converters ■ DC/DC Converters ■ Switching Regulators ■ LED Drivers



WE POWER YOUR PRODUCTS

POWER SUPPLIES FOR DISTRIBUTED POWER ARCHITECTURE

RECOM

POWER SUPPLIES FOR DISTRIBUTED POWER ARCHITECTURE

Innovative. Efficient. Reliable.

The Distributed Power Architecture concept enables engineers to develop the power structure of their design flexibly and efficiently, using power converter modules. Therefore, RECOM has evolved AC/DC and DC/DC converters needed for current and future applications in **IoT, industry 4.0, smart homes and buildings, energy monitoring, medical, and transportation.**

RECOM manufactures a full range of standard and customized DC/DC and AC/DC converters in every power class from sub-1W to tens of kW, apart from switching regulators and LED drivers in a wide selection of formats. The company headquarters are located in Gmunden, Austria, and include the state-of-the-art logistics research and development center and laboratory wing and is supported by a global distribution network. The RECOM name has become synonymous with exceptional quality, integrity, innovation and excellent customer service.

RECOM: A global manufacturer

Our global network of RECOM – owned factories are located in Italy, Mainland China, and Taiwan with numerous subcontractors situated throughout Asia and Europe, enabling us to provide both low cost commercial products as well as custom power solutions quickly and efficiently. RECOM manufacturing and logistics sites are IATF 16949 / ISO 9001 certified, guaranteeing the highest level of quality control.

Innovative

Since our first DC/DC converter came off the production line, RECOM continues to launch innovative new products, often setting new standards within the industry. Over the past four decades, RECOM has become one of the fastest growing power supply manufacturers of standard and customized products in the industry. This is largely due to an exceptional, global team of forward-thinking engineers and technical sales personnel, along with our commitment to high-quality products and responsive customer service.

Efficient

When it comes to efficiency, our aim is to go beyond industry expectations, not only in the performance of our converters, but also by assisting engineers with integrating RECOM products into their designs. We pride ourselves in providing over 35.000 standard products to choose from, thus providing solutions for almost any application. Custom designs are also possible, through our sister company Power Control Systems, as well as directly with RECOM. RECOM is able to provide production samples quickly through our reliable distribution network and can provide guidance with application and EMC issues through our skilled and knowledgeable team of support engineers.

Reliable

Here at RECOM, we understand that reliability is the most critical factor when customers choose third-party power supply products for their applications. All RECOM products are thoroughly tested during development for performance, including rigorous EMC and Highly Accelerated Lifetime Testing (HALT), to identify any design weaknesses before they are released to the market. Due to our thorough development and testing process, whether for eventual mass production or a short-run order custom, we are able to offer a design of up to ten years and provide warranties of up to seven years. RECOM continues to meet the highest international standards, backed with certification from international safety agencies.

Certified products:
CE, EN, UL, CSA, ENEC, PSE, RCM

RECOM offers product safety certifications including CE, EN, UL, CSA, ENEC, and PSE marks to meet our customers' requirements of international safety standards.

Product Selection Guide

This Selection Guide only represents a variety of our most popular products. Please visit www.recom-power.com or contact your local sales rep in case you do not find what you are looking for.

AC/DC POWER SUPPLIES

RECOM offers a wide range of AC/DC power supplies with performance and certifications suitable for applications ranging from **household to smart metering, industrial, medical, test and measurement, mobility/transportation, household/building automation, etc. Custom designs are additionally available for any application, including defense,** from RECOM sister company PCS.

RECOM AC/DC power supplies utilize the latest design techniques to meet today's demands for safe, efficient, reliable, and cost-effective products with minimized light-load, no-load, and standby losses – all this in the smallest case sizes and footprints with wide input ranges, most from 100VAC to 277VAC nominal. Accordingly, a special focus is on solutions for fan-less operation, supported by heat sinking base plates for easing thermal system integration of extra high-power density modules.

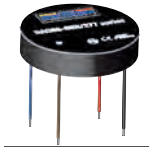
The standard ranges available span powers from 1W to 1200W with multi-kW parts available as platform solutions for custom designs. In addition, mechanical formats available include through-hole board-mount, encapsulated with wire connections, open frame with connectors or screw terminations, and even panel-mounting in an IEC C14 'kettle' connector. Most products are rated for convection cooling up to high ambient temperatures while the higher power, open-frame parts, deliver maximum output with optional fan cooling. All products meet 'Class B' EMC emissions requirements without additional filtering and floating outputs. Many products feature isolation and leakage current performance suitable for the most sensitive medical applications.

The RECOM AC/DC 'Book of Knowledge' provides an insight into the design methodologies used in your choice of AC/DC converter. **www.recom-power.com/bok**

AC/DC CONVERTERS

ON-BOARD

- 1 to 60 watts
- Regulated outputs
- Temperature range: -40°C to +90°C
- Low output ripple & noise
- Short circuit protection
- Built-in EN55032 class B filter
- Ultra compact size
- High efficiency over the entire load range
- RoHS compliant
- ErP compliant (<0.5W in standby)
- CE, EAC and UL marked
- Warranty up to 3 years

Series	Power (W)	Vin (VAC)	Vout (VDC)	Isolation	Case / Dimensions (LxWxH)	Certifications	Other features
 RAC01-G (B or A)	1	85-264	3.3, 5, 12, 15, 24	3 kVAC / 1 min	33.7 x 22.2 x 19.0 mm (1.3” x 0.9” x 0.8”)	EN/IEC/UL62368-1 EN60335-1	RAC01-GA: household certified low leakage current
 RAC02-G (B or A)	2	85-264	3.3, 5, 12, 15, 24	3 kVAC / 1 min	33.7 x 22.2 x 19.0 mm (1.3” x 0.9” x 0.8”)	EN/IEC/UL62368-1 EN60335-1	RAC02-GA: household certified low leakage current
new  RAC02E-K/277	2	85-305	3.3, 5, 12, 15, 24	4 kVAC / 1min	33.7 x 22.2 x 15.4 mm (1.3” x 0.9” x 0.6”)	UL/IEC/EN62368-1 EN62233 IEC/EN61558-1/2-16	Low profile / tiny footprint operating temperature: -40°C to+90°C with derating, full load power up to 80°C no load power consumption < 75mW
new  RAC03-K	3	85-264	3.3, 5, 12, 15, 18, 24	3 kVAC / 1 min	28.5 x 23.5 x 17.9 mm (1.1” x 0.9” x 0.7”)	UL/IEC/EN62368-1 IEC/EN60335-1	Operating temperature range: -40°C to +80°C household certified tiniest footprint at 3W /SMD: version for SMD process coming soon
new  RAC03E-K/277	3	85-305	3.3, 5, 12, 15, 24	4 kVAC / 1min	37.0 x 24.0 x 15.4 mm (1.5” x 0.9” x 0.6”)	UL/IEC/EN62368-1 EN62233 IEC/EN61558-1/2-16 EN60335-1	Operating temperature: -40°C to +85°C with derating household certified, low profile no load power consumption < 75mW
 RAC03-SER/277	3	85-305	3.3, 5, 12, 24	3 kVAC / 1 min	50.3 x 50.3 x 11.0 mm (2.0”x 2.0” x 0.4”)	EN/IEC/UL60950-1 EN60335-1	Extra low footprint < 11mm low no load power consumption < 40mW operating temperature range: -40°C to +85°C round design and flying wires for flushmounting
 RAC3.5-K/277	3.5	85-305	3.3, 5, 12, 15, 24	4.2 kVAC / 1 min	26.7 x 31.7 x 21.8 mm (1.1” x 1.2” x 0.9”)	EN/UL62368-1 IEC/EN60335-1	Standby mode optimized (eco design Lot 6) operating temperature range: -40°C to +90°C household certified
 RAC04-K/277	4	80-305	3.3, 5, 12, 15, 24	4 kVAC / 1 min	36.7 x 27.2 x 17.4 mm (1.4” x 1” x 0.7”)	EN/IEC/UL60950-1 EN/IEC/UL62368-1 IEC/EN61558-1; 2-16 EN61010-1 EN60335-1	Operating temperature: -40°C to 90°C household certified 6W peak power extra robust series

AC/DC CONVERTERS

ON-BOARD

- 1 to 60 watts
- Regulated outputs
- Temperature range: -40°C to +90°C
- Low output ripple & noise
- Overvoltage and overcurrent protected
- Built-in EN55032 class B filter
- Ultra compact size
- High efficiency over the entire load range
- RoHS compliant
- ErP compliant (<0.5W in standby)
- CE, EAC and UL marked
- Warranty up to 3 years

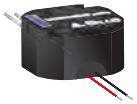
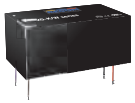
Series	Power (W)	Vin (VAC)	Vout (VDC)	Isolation	Case / Dimensions (LxWxH)	Certifications	Other features
 RAC04-G (B or A)	4	85-305	3.3, 5, 9, 12, 15, 24	3 kVAC / 1 min	37.0 x 24.0 x 15.0 mm (1.5" x 0.9" x 0.6")	EN/IEC/UL62368-1 EN60335-1 EN/IEC61558-1, -2,-16,	No load power consumption <75mW operating temperature range: -40°C to +85°C low profile and typ. 3 Watt footprint RAC04-GA: household certified, low leakage current
 RAC05-K	5	85-264	3.3, 5, 12, 15, 24	3 kVAC / 1 min	25.4 x 25.4 x 16.5 mm (1.0" x 1.0" x 0.7")	EN/IEC/UL62368-1	Super compact size 1" x 1" high efficiency starting from 1W load
new  RAC05E-K	5	90-264	4, 5, 12, 15, 24	3 kVAC / 1 min	37.0 x 24.0 x 18.0 mm (1.5" x 0.9" x 0.6")	EN/IEC/UL62368-1 EN/IEC60335-1 EN/IEC61558-1, -2,-16,	Economy Series no load power consumption < 100mW industry standard pinout for typ. 3W
new  RAC05E-KT	5	90-265	4, 5, 12, 15, 24	3 kVAC / 1 min	32.1 x 27.1 x 21.8 mm (1.3" x 1.1" x 0.9")	IEC60950 IEC62368 EN55022	Operating temperature range: -25°C to +75°C cost-efficient, economy Series no load power consumption < 100mW EI30 standard Transformer pinout
 RAC05-K/277 (/W)	5	85-305	3.3, 5, 12, 15, 24	4.2 kVAC / 1 min	26.7 x 31.7 x 21.8 mm (1.0" x 1.2" x 0.9")	EN/UL62368-1 IEC/EN60335-1	Standby mode optimized (eco design Lot 6) operating temperature range: -40°C to +90°C 6W peak power, wired version availabe (/W)
 RAC05-K/480	5	85-528	5, 12, 15	4 kVAC / 1 min	52.5 x 27.4 x 23.0 mm (2.1" x 1.1" x 0.9")	IEC/EN62368-1 UL/IEC61010-1	Ultra-wide input range 85-528VAC OVC III input rating without additional fuses PD3 pollution degree 3
 RAC10-K/277	10	85-305	3.3, 5, 12, 15, 18, 24 ±12, ±15	4 kVAC / 1 min	52.5 x 27.4 x 23.0 mm (2.1" x 1.1" x 0.9")	EN/IEC/UL60950-1 EN/IEC/UL62368-1 EN/IEC60335-1 EN62477-1	OVC III rated operating temperature range: -40°C to +80°C 14 Watt peak power single / dual outputs
 RAC15-K	15	85-264	5, 12, 15, 24	3 kVAC / 1 min	52.5 x 27.4 x 23.0 mm (2.1" x 1.1" x 0.9")	EN/IEC/UL62368-1 EN60335 IEC/EN61558-1, -2-16	Standby mode optimized PSU (ENER Lot 6) ultra-high efficiency over entire load range operating temperature range: -40°C to +85°C

This Selection Guide represents only the latest most popular products of our portfolio. Please check www.recom-power.com for additional products.

AC/DC CONVERTERS

ON-BOARD

- 1 to 60 watts
- Regulated outputs
- Temperature range: -40°C to +90°C
- Low output ripple & noise
- Short circuit protection
- Built-in EN55032 class B filter
- Ultra compact size
- High efficiency over the entire load range
- RoHS compliant
- ErP compliant (<0.5W in standby)
- CE, EAC and UL marked
- Warranty up to 3 years

Series	Power (W)	Vin (VAC)	Vout (VDC)	Isolation	Case / Dimensions (LxWxH)	Certifications	Other features
 RACM18-ER/W	18	90-264	5, 12, 24	4.6 kVAC / 1 min	53.0 x 51.0 x 24.5 mm (2.1" x 2.0" x 1.0")	EN/IEC/UL60950-1 EN/IEC/UL60601-1 EN/IEC60335-1 EN/IEC61558-2-16 EN60601-,-2	Suitable for household and smart building 2MOPP for patient safety, BF rated IP68 waterproof 5000m altitude
 RAC20-K (/W) (/277)	20	85-264 (/277) 85-305	5, 12, 15, 24, 48 ±12, ±15	3 kVAC / 1 min	52.5 x 27.4 x 23.0 mm (2.1" x 1.1" x 0.9")	EN/IEC/UL62368-1 EN60335 IEC/EN61558-1 IEC/EN61558-2-16	Standby mode optimized PSU (ENER Lot 6) ultra-high efficiency over entire load range low cost series available (RAC20E) 4kV option available
 RACM30-ER/W	30	90-264	12, 24	4.4 kVAC / 1 min	53.0 x 51.0 x 33.5 mm (2.1" x 2.0" x 1.3")	EN/IEC/UL60950-1 IEC/UL60601-1 EN/IEC60335-1 EN/IEC61558-2-16 EN60601-1,-2	2MOPP for patient safety, BF rated no load power consumption <75mW IP68 waterproof 5000m altitude
new  RACM40-K	40	80-264	5, 12, 15, 18, 24, 36, 48	4 kVAC / 1 min	83.2 x 46.4 x 30.4 mm (3.3" x 1.8" x 1.2")	ANSI/AAMI 60601-1 EN/IEC60335 EN/IEC62368 EN/IEC60601-1 EN/IEC61558-1/2-16	Internal EMC class B filter 2MOPP and household certified operating temperature range: -40°C to +85°C
new  RACM60-K/OF/PCB	60	80-264	5, 12, 15, 24, 36, 48	4 kVAC / 1 min	78.4 x 53.0 x 35.4 mm (3.1" x 2.1" x 1.4")	ANSI/AAMI 60601-1 EN/IEC60335 EN/IEC62368 EN/IEC60601-1 EN/IEC61558-1/2-16	Internal EMC class B filter 2MOPP and household certified operating temperature range: -40°C to +85°C
 RAC-ADAPT-ST-1	N/A	N/A	N/A	N/A	91.0 x 50.0 x 1.6 mm (3.5" x 7.9" x 0,06")	N/A	Up to 488VAC input voltage range 9A current rating for up 90°C air temperature stable solderability by secure packaging screw terminal adapter board

AC/DC CONVERTERS

OFF-BOARD

- 5 to 1200 watts
- Short circuit protection
- Built-in active PFC
- Built-in class B filter
- Operating temperature range: -40°C up to +85°C
- Different package types: enclosed and open-frame (/OF) versions
- RoHS compliant
- ErP compliant (<0.5W in standby)
- CE and EAC marked
- Warranty up to 5 years

Series	Power (W)	Vin (VAC)	Vout (VDC)	Isolation	Case / Dimensions (LxWxH)	Certifications	Other features
 RAC05-K/C14	5	85-264	3.3, 5, 12, 15, 24	3 kVAC / 1 min	67.0 x 48.0 x 23.0 mm (2.6" x 1.9" x 0.9")	UL/IEC/EN62368-1 IEC/EN60950-1	Isolated power supply with integrated mains filter, safe, touchable DC outputs easy installation worldwide standard IEC input
new  RACM40-K/OF	40	80-264	5, 12, 15, 18, 24, 36, 48	4 kVAC / 1 min	78.3 x 40.6 x 25.5 mm (3.1" x 1.6" x 1.0") 78.3 x 53.0 x 25.5 mm (3.1" x 2.1" x 1.0")	ANSI/AAMI 60601-1 EN/IEC60335 EN/IEC62368 EN/IEC60601-1 EN/IEC61558-1/2-16	/PCB: solderpin printmount version available 2MOPP and household certified operating temperature range: -40°C to +85°C
new  RACM60-K/OF	60	80-264	5, 12, 15, 24, 36, 48	4 kVAC / 1 min	78.4 x 53.0 x 31.5 mm (3.0" x 2.0" x 1.2") 101.6 x 53.0 x 31.5 mm (4.0" x 2.0" x 1.2")	ANSI/AAMI 60601-1 EN/IEC60335 EN/IEC62368 EN/IEC60601-1 EN/IEC61558-1/2-16	/PCB: solderpin printmount version available 2MOPP and household certified operating temperature range: -40°C to +85°C
new  RACM90-K/OF	90	85-264	12, 15, 24, 36 ,48	4 kVAC / 1 min	50.8 x 101.6 x 32 mm (2.0" x 4.0" x 1.3")	ANSI/AAMI 60601-1 EN/IEC60335 EN/IEC62368 EN/IEC60601-1 EN/IEC61558-1/2-16	2MOPP rated; BF ready low leakage current < 75uA LPS limited power source rated
 RAC150-G/OF	150	90-264	12, 24, 48	3 kVAC / 1 min	105.0 x 62.0 x 35.0 mm (4.1" x 2.4" x 1.4") 101.6 x 50.8 x 30.0 mm (OF) (4.0" x 2.0" x 1.2")	EN/IEC/UL62368-1	Efficiency up to 91% SCP, OLP, OTP & OVP protection coldplate cooling or /ENC: enclosed version output 125W at +50°C with natural convection
new  RACM230-G/OF (/ENC)	160 / 230	80-264	12, 24, 36, 48, 54	4 kVAC / 1 min	101.6 x 50.8 x 32.0 mm (OF) (4.0" x 2.0" x 1.3") 105.0x62.0x35.0mm (ENC) (4.1" x 2.4" x 1.4")	EN/IEC62368-1, EN/IEC60335-1, EN/IEC60601-1, EN/IEC61558-1,-2-16,	160W conduction-cooled, fan-less operation 2MOPP and household certified standby power consumption <0.5W wide operating temperature range: -40°C to +80°C
new  RACM550-G/OF (/ENC)	300 / 550	80-264	24, 36, 48, 56	4 kVAC / 1 min	127.0 x 76.0 x 38.0 mm (OF) (5" x 2.9" x 1.5") 150.0 x 87.0 x 45.0 mm (ENC) (5.9" x 3.4" x 1,8")	IEC/EN62368-1, IEC/EN60335-1 IEC/EN60601-1, IEC/EN61558-1,-2-16,	300W conduction-cooled, fan-less operation 550W peak power or forced air rating 2MOPP and household certified 5VSB Auxiliary and 12V fan outputs
new  RACM1200-V	1200	85-264	24, 36, 48	4 kVAC / 1 min	228 x 96.2 x 40 mm (9" x 3.8" x 1.6")	IEC/EN62368-1 IEC/EN60601-1 IEC/EN61558-1; -2-16	Operating temperature range: -40°C to +85°C /PMB for PM Bus option

This Selection Guide represents only the latest most popular products of our portfolio. Please check www.recom-power.com for additional products.

DC/DC CONVERTERS

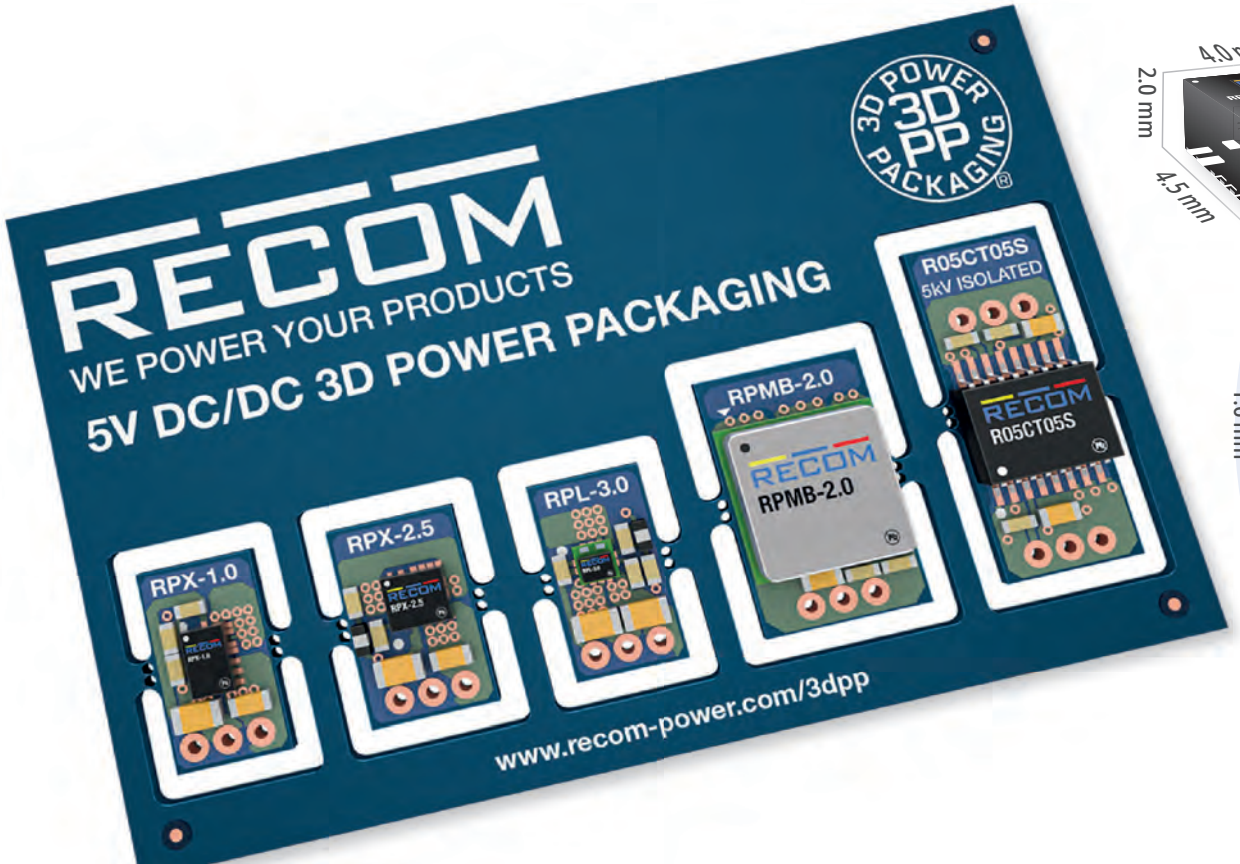
RECOM has been offering isolated DC/DC converters and non-isolated switching regulators since 1975 and has the most extensive range on the market.

The standard range of isolated converters spans from 0.25W to 240W with higher power to several kW, available in RECOM's sister company PCS as custom products based on proven platform designs. Almost every imaginable format of converter is offered, with a range of through-hole products, open or encapsulated surface-mount types in 'gullwing' or 'pinless' variants along with wired, screw terminal, and connectorized parts, mostly in industry-standard SIP, DIP, 'brick', and SMD formats. Fixed and wide input isolated converters are available up to 16:1 with isolation ratings up to 20kVDC and certifications to the highest 2xMOPP medical grade. Unregulated and fully regulated parts are offered with variants featuring up to three outputs. For the **most cost sensitive applications** without sacrificing quality, the RECOM 'E' line provides the best value.

Non-isolated parts are available, ranging from 0.18W to 3kW and higher for custom designs from PCS. Input voltage ranges span 0.65V to 72V with some parts handling a 15:1 variation. Buck, boost, and buck-boost types have fixed or settable output voltages over a wide range from 0.8V to 30V. The package formats include SIP3/4/12, SMD, and 'brick'. Open frame and encapsulated types are available.

Many SMT parts feature RECOM's innovative **'3D Power Packaging®'** technology which utilizes advanced techniques to leverage the 'third dimension' for maximum power density with minimum footprint. Typical construction methods are overmolded 'flip-chip on leadframe' for a QFN package, embedded die in substrates, and complex multi-layer PCBs with plugged and blind vias. 'Chip and wire bonding' with over-molding is another technique used with very high frequency planar magnetics for optimal thermal and functional performance. The result is a range of fully featured, high power density, low cost switching regulators, and isolated DC/DC converters in footprints down to 3x3mm with heights down to 1.45mm.

The RECOM DC/DC 'Book of Knowledge' gives an insight into the design methodologies used in your choice of DC/DC converter. **www.recom-power.com/bok**



DC/DC CONVERTERS

UNREGULATED

- 0.25 to 3 watts
- Isolation voltages up to 20 kVDC
- Industry standard pinout
- Low cost series available
- Custom design available
- RoHS compliant
- REACH compliant
- Warranty up to 5 years
- EAC marked
- (/E) – high efficiency
- (/H) – higher isolation
- (/P) – short circuit protection
- (-R) – tape & reel packaging
- Single (S), dual (D)
- Independent dual (DA) outputs

Series	Power (W)	Vin (VDC)	Vout (VDC)	Isolation	Case / Dimensions (LxWxH)	Certifications	Other features
 R0.25S (/E) R0.25D (DA)	0.25	3.3, 5, 12, 15, 24	3.3, 5, 9, 12, 15, 24, ±3.3, ±5, ±9, ±12, ±15, ±24, 5/5, 12/12	1 or 3 kVDC / 1 s	SMD	12.75 x 10.7 x 6.7 mm (S) (0.5" x 0.4" x 0.3") 15.24 x 10.7 x 6.7 mm (D) (0.6" x 0.4" x 0.3")	EN/IEC/UL60950-1 EN55032	Isolated independent dual outputs (A) operating temperature range: -40°C to +100°C high efficiency (/E), tape & reel packaging (-R) continuous short circuit protection (/P)
 RBL	0.25	3.3, 5, 12	5	1 or 2 kVDC / 1 s	SIP7	19.6 x 6.0 x 10.2 mm (0.8" x 0.2" x 0.4")	IEC/EN60950-1	Operating temperature range: -40°C to +100°C higher isolation requirement 2kVDC (H)
 RM	0.25	3.3, 5, 12, 15, 24	3.3, 5, 9, 12, 15	1 or 2 kVDC / 1 s	SIP4	11.5 x 6.0 x 10.0 mm (0.5" x 0.2" x 0.4")	EN/IEC/UL60950-1	Operating temperature range: -40°C to +85°C continuous short circuit protection (/P) higher isolation requirement 2kVDC (H)
 R0.5S R0.5D	0.5	3.3, 5, 12, 24	5, 12, 15, ±5, ±12, ±15	1 or 3 kVDC / 1 s	SMD	12.75 x 10.7 x 6.7 mm (S) (0.5" x 0.4" x 0.3") 15.24 x 10.7 x 6.7 mm (D) (0.6" x 0.4" x 0.3")	UL60950-1	Operating temperature range: -40°C to +100°C tape & reel packaging (-R) continuous short circuit protection (/P) Single (S) oder Dual (D) available
 ROL	0.5	5, 12	5, 12, 15	1 or 2 kVDC / 1 s	SIP4	11.5 x 6.0 x 10.0 mm (0.5" x 0.2" x 0.4")	EN/IEC/UL60950-1	Operating temperature range: -40°C to +85°C continuous short circuit protection (/P)
 R1DA	1	3.3, 5, 9, 12, 15, 24	3.3/3.3, 5/5, 9/9, 12/12, 15/15	1 kVDC / 1 s	SMD	15.24 x 10.7 x 7 mm (0.6" x 0.4" x 0.3")	EN/UL60950-1	Isolated independent dual outputs operating temperature range: -40°C to +100°C tape & reel packaging (-R) continuous short circuit protection (/P)
 R1S (/E) R1D	1	3.3, 5, 12, 15, 24	3.3, 5, 9, 12, 15, 24 ±3.3, ±5, ±9, ±12, ±15, ±24	1, 2, or 3 kVDC / 1 s	SMD	12.75 x 10.7 x 7 mm (S) (0.5" x 0.4" x 0.3") 15.24 x 10.7 x 7 mm (D) (0.6" x 0.4" x 0.3")	EN/IEC/UL60950-1 EN55032	Operating temperature range: -40°C to +100°C high efficiency (/E), tape & reel packaging (-R) continuous short circuit protection (/P) low cost series available (R1SE, R1SE/H2)
 R1SE	1	5	5	1 kVDC / 1 s	SMD	12.75 x 10.7 x 7.0 mm (0.5" x 0.4" x 0.3")	UL60950-1	Operating temperature range: -40°C to +85°C tape & reel packaging available (-R) **cost efficient**

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DC/DC CONVERTERS

UNREGULATED

- 0.25 to 3 watts
- Isolation voltages up to 20 kVDC
- Industry standard pinout
- Low cost series available
- Custom design available
- RoHS compliant
- REACH compliant
- Warranty up to 5 years
- EAC marked
- (/E) – high efficiency
- (/H) – higher isolation
- (/P) – short circuit protection
- (-R) – tape & reel packaging
- Single (S), dual (D)
- Independent dual (DA) outputs

Series	Power (W)	Vin (VDC)	Vout (VDC)	Isolation	Case / Dimensions (LxWxH)		Certifications	Other features
 R1SE/H2	1	3.3, 5, 12, 15	5, 12, 15	2 kVDC / 1 s	SMD	12.75 x 10.7 x 7.0 mm (0.5" x 0.4" x 0.3")	UL60950-1	Operating temperature range: -40°C to +100°C tape & reel packaging available (-R) **cost efficient**
 R1SX R1DX	1	3.3, 5, 12	3.3, 5 ±5, ±9, ±12, ±15	1 or 3 kVDC / 1 s	SMD	12.75 x 10.8 x 5.8 mm (S) (0.5" x 0.4" x 0.2") 15.24 x 10.7 x 8.5 mm (D) (0.6" x 0.4" x 0.3")	EN/IEC/UL62368-1 UL60950-1 EN55032/24	Operating temperature range: -40°C to +100°C tape & reel packaging (-R) fully automated SMD manufacture, pin compatible with R1SIR1D series, **cost efficient**
 RAM	1	5, 12, 24	5	3.75 or 5 kVDC / 1 s	SMD	18.0 x 9.0 x 6.5 mm (0.7" x 0.3" x 0.2")	EN60950-1 EN55032	Operating temperature range: -40°C to +100°C tape & reel packaging (-R) very low isolation capacitance (4pF)
 RB (/E)	1	3.3, 5, 12, 15, 24	3.3, 5, 9, 12, 15, 24 ±3.3, ±5, ±9, ±12, ±15, ±24	1 or 2 kVDC / 1 s	SIP7	19.6 x 6.0 x 10.2 mm (0.8" x 0.2" x 0.4")	EN/IEC/UL60950-1 EN55032	High efficiency (/E) operating temperature range: -40°C to +85°C continuous short circuit protection (/P) low cost series available (RBE)
 RBE	1	5	5	1 kVDC / 1 s	SIP7	19.6 x 6.0 x 10.2 mm (0.8" x 0.2" x 0.4")	EN/IEC/UL60950-1	Operating temperature range: -40°C to +85°C industry standard **cost efficient**
 RBM	1	5, 12	5, 12, 15, ±5, ±12, ±15	3 kVDC / 1 s	SIP6 Micro	16.55 x 6.0 x 7.7 mm (0.7" x 0.2" x 0.3")	EN/IEC/UL60950-1	Operating temperature range: -40°C to +85°C continuous short circuit protection (/P)
 RE	1	3.3, 5, 12, 15, 24	3.3, 5, 9, 12, 15, 24	1 or 2 kVDC / 1 s	SIP7	19.6 x 6.0 x 10.2 mm (0.8" x 0.2" x 0.4")	EN/IEC/UL60950-1	Operating temperature range: -40°C to +85°C continuous short circuit protection (/P) low cost series available (REE)
 REE	1	5	5	1 kVDC / 1 s	SIP7	19.6 x 6.0 x 10.2 mm (0.8" x 0.2" x 0.4")	EN/IEC/UL60950-1	Operating temperature range: -40°C to +85°C industry standard **cost efficient**

DC/DC CONVERTERS

UNREGULATED

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- Warranty up to 5 years
- EAC marked
- (/E) – high efficiency
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Series	Power (W)	Vin (VDC)	Vout (VDC)	Isolation	Case / Dimensions (LxWxH)		Certifications	Other features
 REM1	1	3.3, 5, 12, 15, 24	3.3, 5, 12	5.2 kVDC / 1 min 4 kVAC / 1 min	SIP7	19.6 x 6.0 x 10.2 mm (0.8” x 0.2” x 0.4”)	EN/IEC62368-1 ES/IEC/UL60601-1 EN55032 EN60601-1,-2	Medical approved, 2MOPP for patient safety reinforced isolation for 250VAC working voltage CF rated outputs, 5000m altitude, operating temperature range: -40°C up to +100°C
 RFB	1	5	5	1 kVDC / 1 s	SIP7	19.6 x 6.0 x 10.2 mm (0.7” x 0.2” x 0.4”)	UL60950-1	Low cost 1W converter 1:1 input voltage range SIP7 package, 1kVDC isolation **cost efficient**
 RFM	1	5	5	1 kVDC / 1 s	SIP4	11.5 x 6.0 x 10.0 mm (0.4” x 0.2” x 0.4”)	UL60950-1	Low cost 1W converter industry standard pinout SIP4 package, 1kVDC isolation **cost efficient**
 RFMM	1	5	5	4 kVDC / 1 s	SIP7	19.65 x 7.05 x 10.2 mm (0.7” x 0.3” x 0.4”)	UL60950-1	Low cost 1W converter industry standard pinout, SIP7 package, 4kVDC isolation **cost efficient**
 RK RH	1	5, 12, 15, 24	5, 9, 12, 15, ±5, ±9, ±12, ±15, +15/-9	3 or 4 kVDC / 1 s	SIP7	19.65 x 6.0 x 10.2 mm (0.8” x 0.2” x 0.4”)	EN/IEC/UL60950-1	Operating temperature range: -40°C to +90°C continuous short circuit protection (/P) low cost series available (RKE)
 RK/H6 RH/H6	1	5, 12, 15, 24	3.3, 5, 12, 15, ±3.3, ±5, ±12, ±15	6.4 kVDC / 1 s	SIP7	19.65 x 7.05 x 10.2 mm (0.8” x 0.3” x 0.4”)	IEC/UL60950-1 IEC62368-1 EN55032	Operating temperature range: -40°C to +90°C high capacitive load capability
 RKE/H	1	5, 12, 24	5	4 kVDC / 1 s	SIP7	19.6 x 7.05 x 10.2 mm (0.8” x 0.3” x 0.4”)	EN/IEC/UL60950-1 EN55032/24	Operating temperature range: -40°C to +85°C high isolation **cost efficient**
 RNM	1	3.3, 5, 12, 15	3.3, 5, 9, 12, 15	1 or 2 kVDC / 1 s	DIP6	8.3 x 8.3 x 6.8 mm (0.3” x 0.3” x 0.3”)	EN/IEC/UL60950-1	Ultra compact operating temperature range: -40°C to +85°C continuous short circuit protection (/P)

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Series		Power (W)	Vin (VDC)	Vout (VDC)	Isolation	Case / Dimensions (LxWxH)		Certifications	Other features
	RO (/E)	1	3.3, 5, 12, 15, 24	3.3, 5, 9, 12, 15, 24	1 or 2 kVDC / 1 s	SIP4	11.5 x 6.0 x 10.0 mm (0.5” x 0.2” x 0.4”)	EN/IEC/UL60950-1	High efficiency (/E) operating temperature range: -40°C to +85°C continuous short circuit protection (/P) low cost series available (ROE)
	ROE	1	3.3, 5, 12, 15, 24	5, 12, 15	1 kVDC / 1 s	SIP4	11.5 x 6.0 x 10.0 mm (0.5” x 0.2” x 0.4”)	EN/IEC/UL60950-1	Operating temperature range: -40°C to +85°C industry standard **cost efficient**
	ROM	1	3.3, 5, 12	5, 12, 15	3 kVDC / 1 s	SIP4 Micro	11.5 x 6.0 x 7.7 mm (0.5” x 0.2” x 0.3”)	EN/UL60950-1	Operating temperature range: -40°C to +85°C continuous short circuit protection (/P)
	RP	1	5, 9, 12, 15, 24	3.3, 5, 9, 12, 15, 24, ±3.3, ±5, ±9, ±12, ±15, ±24 +15/-9	5.2 kVDC / 1 s	SIP7	19.65 x 7.05 x 10.2 mm (0.8” x 0.3” x 0.4”)	EN/IEC60950-1	Operating temperature range: -40°C to +85°C continuous short circuit protection (/P)
	RU	1	3.3, 5	5/5	1 or 2 kVDC / 1 s	SIP7	19.6 x 6.0 x 10.2 mm (0.8” x 0.2” x 0.4”)	EN60950-1	Isolated independent dual outputs operating temperature range: -40°C to +85°C continuous short circuit protection (/P)
	RUM	1	3.3, 5	5/5	1 or 2 kVDC / 1 s	SIP6	16.55 x 6.0 x 7.7 mm (0.7” x 0.2” x 0.3”)	EN60950-1	Isolated independent dual outputs operating temperature range: -40°C to +85°C continuous short circuit protection (/P) low profile
	RxxPxx (/R)	1	5, 12, 15, 24	3.3, 5, 6, 9, 12, 15, ±3.3, ±5, ±9, ±12, ±15, +15/-9	6.4 or 8 kVDC / 1 s	SIP7	19.5 x 9.8 x 12.5 mm (0.8” x 0.4” x 0.5”)	EN/UL60950-1 EN/IEC/UL60601-1 ES60601-1	Medical approved (/R6.4 & /R8 versions) operating temperature range: -40°C to +90°C continuous short circuit protection (/P) reinforced isolation (/R6.4 & /R8)
	RN	1.25	3.3, 5, 9, 12, 15, 24	3.3, 5, 7, 9, 12, 15, 24	1 or 2 kVDC / 1 s	DIP8	12.6 x 10.1 x 7.6 mm (0.5” x 0.4” x 0.3”)	EN60950-1	Operating temperature range: -40°C to +85°C continuous short circuit protection (/P)

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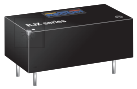
Series	Power (W)	Vin (VDC)	Vout (VDC)	Isolation	Case / Dimensions (LxWxH)		Certifications	Other features
 R2S R2D	2	5, 12, 15, 24	3.3, 5, 9, 12, 15, 24, ±5, ±9, ±12, ±15, ±24	1 or 3 kVDC / 1 s	SMD	12.75 x 10.7 x 9.0 mm (S) (0.5" x 0.4" x 0.4") 15.24 x 10.7 x 9.0 mm (D) (0.6" x 0.4" x 0.4")	EN/IEC/UL60950-1 EN55032	Operating temperature range: -40°C to +100°C tape & reel packaging (-R) continuous short circuit protection (/P) single (S) or dual (D) available
 R2SX	2	5, 12, 24	3.3, 5, 15, 24	1 or 3 kVDC / 1 s	SMD	15.24 x 11.1 x 8.0 mm (0.6" x 0.4" x 0.4")	EN/IEC/UL62368-1 EN/IEC/UL60950-1 EN55032 EN55024	Operating temperature range: -40°C to +100°C no minimum load required **cost efficient**
 REM2	2	3.3, 5, 12, 15, 24,	3.3, 5, 9, 12, ±3.3, ±5, ±12,	5,2 kVDC / 1 min	SIP8	23.0 x 8.0 x 12.2 mm (0.9" x 0.4" x 0.5")	IEC/EN62368-1 EN/IEC60601-1 EN60601-1-2	Operating temperature range: -40°C to +95°C single or dual output. Medical approved, 2 MOPP for patient safety, reinforced isolation for 250VAC working voltage, CF rated outputs, 5000m altitude
 RD	2	5, 12, 24	±5, ±12, ±15, ±24	1 or 2 kVDC / 1 s	SIP7	19.65 x 7.0 x 10.2 mm (0.8" x 0.3" x 0.4")	IEC/EN60950-1	Operating temperature range: -40°C to +85°C continuous short circuit protection (/P)
 RI	2	5, 12, 15, 24	5, 12, 15	1 kVDC / 1 s	SIP4	11.5 x 7.6 x 10.2 mm (0.5" x 0.3" x 0.4")	IEC/EN60950-1	Operating temperature range: -40°C to +85°C continuous short circuit protection (/P)
 RJZ RGZ	2	3.3, 5, 9, 12, 15, 24	3.3, 5, 9, 12, 15, 24, ±3.3, ±5, ±9, ±12, ±15, ±24, +15/-9	3 or 4 kVDC / 1 s	DIP14	19.9 x 10.0 x 7.1 mm (0.8" x 0.4" x 0.3")	IEC/EN60950-1 EN55032	Operating temperature range: -40°C to +90°C continuous short circuit protection (/P) single, dual or asymmetric output options
 RKZ	2	5, 12, 24	5, 12, 15, ±5, ±12, ±15, +15/-9, +20/-5	3 or 4 kVDC / 1 s	SIP7	19.65 x 7.05 x 10.2 mm (0.8" x 0.3" x 0.4")	EN/IEC/UL60950-1	Operating temperature range: -40°C to +85°C continuous short circuit protection (/P) single, dual or asymmetric output options
new  RKZE	2	5, 12, 15, 24	5, 9, 12, 15, ±5, ±12, ±15	3 or 4 kVDC / 1 s	SIP7	19.65 x 7.05 x 10.2 mm (0.7" x 0.3" x 0.4")	EN62368-1 EN55032 EN55024	Low cost 2W converter industry standard SIP7 package 3 kVDC or 4 kVDC isolation options single or dual outputs, **cost efficient**

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DC/DC CONVERTERS

UNREGULATED

- 0.25 to 3 watts
- Isolation voltages up to 20 kVDC
- Industry standard pinout
- Low cost series available
- Custom design available
- RoHS compliant
- REACH compliant
- Warranty up to 5 years
- EAC marked
- (/E) – high efficiency
- (/H) – higher isolation
- (/P) – short circuit protection
- (-R) – tape & reel packaging
- Single (S), dual (D)
- Independent dual (DA) outputs

Series	Power (W)	Vin (VDC)	Vout (VDC)	Isolation	Case / Dimensions (LxWxH)		Certifications	Other features
 RTM	2	5, 12, 24	5	2 or 3 kVDC / 1 s	SMD	18.0 x 9.0 x 7.15 mm (0.7” x 0.3” x 0.3”)	EN60950-1 EN55032	Operating temperature range: -40°C to +90°C tape & reel packaging (-R)
new  RHV2	2	5, 12, 24	5, 12, 24, ±5, ±12	20 kVDC / 1 s	SIP16	45.0 x 15.0 x 17.0 mm (1.7” x 0. 6” x 0.7”)	IEC/EN62368-1 IEC/EN61010-1	Compact SIP16 case with >30mm pin separation low 4pF max. isolation capacitance operating temperature range: -40°C to +85°C at full load
 RUZ	2	5	5/5	1 or 2 kVDC / 1 s	SIP7	19.65 x 7.0 x 10.2 mm (0.8” x 0.3” x 0.4”)	IEC/EN60950-1	Isolated independent dual outputs operating temperature range: -40°C to +85°C continuous short circuit protection (/P)
 RV (/R)	2	3.3, 5, 12, 15, 24	3.3, 5, 9, 12, 15, 24, ±3.3, ±5, ±9, ±12, ±15, ±24, +15/-9	6, 6.4, or 8 kVDC / 1 s	DIP24 Micro	32.4 x 14.7 x 11.1 mm (1.3” x 0.6” x 0.4”) 32.4 x 14.4 x 11.4 mm (/R) (1.3” x 0.6” x 0.5”)	EN/UL60950-1 EN61010-1 EN/IEC/UL60601-1 EN55032	Medical approved (/R6.4 & /R8 versions) continuous short circuit protection (/P) operating temperature range: -40°C to +90°C single, dual or asymmetric output options
 RxxP2xx (/R)	2	5, 12, 15, 24	3.3, 5, 9, 12, 15, ±3.3, ±5, ±9, ±12, ±15, +15/-3, +15/-9, +20/-5	6.4 or 8 kVDC / 1 s	SIP7	19.5 x 9.8 x 12.5 mm (0.8” x 0.4” x 0.5”)	EN/UL60950-1 EN/IEC/UL60601-1 ES60601-1 EN55032	Medical approved (/R6.4 & /R8 versions) continuous short circuit protection (/P) operating temperature range: -40°C to +85°C single, dual or asymmetric output options
 RI3	3	5, 12, 15, 24	5, 9, 12, 15	1, 2, or 3 kVDC / 1 s	SIP4	11.5 x 7.6 x 10.2 mm (0.5” x 0.3” x 0.4”)	EN/IEC/UL60950-1 EN55032	Very high power density operating temperature range: -40°C up to +100°C
 RKZ3	3	5, 12, 24	5, 12	3 or 4 kVDC / 1 s	SIP7	19.6 x 7.5 x 12.2 mm (0.8” x 0.3” x 0.5”)	IEC/EN62368-1	High power density efficiency up to 90% pin-compatible with RK & RKZ
new  RHV3	3	5, 12, 24	5, 12, 24, ±5, ±12	20 kVDC / 1 s	SIP16	45.0 x 15.0 x 17.0 mm (1.7” x 0. 6” x 0.7”)	IEC/EN62368-1 IEC/EN61010-1	Compact SIP16 case with >30mm pin separation low 4pF max. isolation capacitance operating temperature range: -40°C to +80°C at full load

DC/DC CONVERTERS

REGULATED

- 0.5 to 240 watts
- Isolation voltages up to 10 kVDC
- Short circuit protection
- Optional heatsinks available
- Low cost series available
- Custom design available
- RoHS compliant
- REACH compliant
- Warranty up to 5 years
- EAC marked
- (-R) – tape & reel packaging
- (/P) – short circuit protection
- (Z), (W) – wide input range
- (-HC) – heatsink available
- (/SMD) – surface mount device
- (/M) – metal case

Series	Power (W)	Vin (VDC)	Vout (VDC)	Isolation	Case / Dimensions (LxWxH)		Certifications	Other features
 R0.5Z	0.5	5, 12, 15, 24	5, 12, 15	1 or 2 kVDC / 1 s	SMD	15.24 x 10.7 x 7.1 mm (0.6" x 0.4" x 0.3")	EN/UL60950-1 EN55022	Operating temperature range: -40°C to +85°C tape & reel packaging (-R) continuous short circuit protection (/P)
 R0.5ZX	0.5	5	5	1 or 2 kVDC / 1 s	SMD	15.24 x 11.1 x 8.5 mm (0.6" x 0.4" x 0.4")	IEC/EN60950-1 UL60950 EN/IEC/UL62368-1 EN55032 EN55024	Operating temperature range: -40°C to +100°C regulated output with internal linear regulator industry standard pinout
 R05CT05S **new**	0.5	4.5-5.5	3.3, 3.7, 5.0, 5.4	5 kVDC / 1 min	SMD	10.3 x 7.5 x 2.65 mm (0.4" x 0.3" x 0.1")	UL62368-1 IEC/EN62368-1 ES/IEC/EN60601-1	Operating temperature range: -40°C to +140°C 1kVAC working voltage CTRL, SYNC, UVLO Selectable outputs
 R1Z	1	3.3, 5, 12, 15, 24	3.3, 5, 9, 12, 15	1 or 2 kVDC / 1 s	SMD	15.24 x 10.7 x 9.0 mm (0.6" x 0.4" x 0.4")	EN/IEC/UL60950-1 EN55022	Operating temperature range: -40°C to +70°C tape & reel packaging (-R) continuous short circuit protection (/P)
 R1ZX	1	5	5	1 or 2 kVDC / 1 s	SMD	15.24 x 11.1 x 8.5 mm (0.6" x 0.4" x 0.4")	IEC/EN/UL60950-1 EN/IEC/UL62368-1 EN55032 EN55024	Operating temperature range: -40°C to +80°C regulated output with internal linear regulator industry standard pinout
 RAZ	1	5, 12, 24	5	1.25 or 2.5 kVDC / 1 s	SMD	18.0 x 8.7 x 7.8 mm (0.7" x 0.3" x 0.3")	IEC/EN60950-1 EN60601-1	Operating temperature range: -40°C to +85°C tape & reel packaging (-R)
 RSO	1	4.5-9, 4.5-18, 9-18, 9-36, 18-36, 18-72, 36-72	3.3, 5, 9, 12, 15, ±3.3, ±5, ±9, ±12, ±15	1, 2, or 3 kVDC / 1 s	SIP8	21.8 x 9.2 x 11.1 mm (0.9" x 0.4" x 0.4")	EN/IEC/UL60950-1	Operating temperature range: -40°C to +85°C 2:1 and 4:1 wide input voltage options low cost series available (RSOE)
 RSOE (Z)	1	4.5-9, 18-36, (Z): 4.5-18, 9-36	5	2 kVDC / 1 s	SIP8	21.8 x 9.2 x 11.1 mm (0.9" x 0.4" x 0.4")	UL60950-1 IEC/EN/UL62368-1	Operating temperature range: -40°C to +80°C 2:1 or 4:1 wide input range (Z) **cost efficient**

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DC/DC CONVERTERS

REGULATED

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- Optional heatsinks available
- Low cost series available
- Custom design available
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- (Z), (W) – wide input range
- (-HC) – heatsink available
- (/SMD) – surface mount device
- (/M) – metal case

Series	Power (W)	Vin (VDC)	Vout (VDC)	Isolation	Case / Dimensions (LxWxH)		Certifications	Other features
 RY	1	5, 9, 12, 15, 24	5, 9, 12, 15, 24 ±5, ±9, ±12, ±15, ±24	1 kVDC / 1 s	SIP7	19.65 x 7.05 x 10.2 mm (0.8” x 0.3” x 0.4”)	EN60950-1	Control pin (on/off) operating temperature range: -40°C to +70°C continuous short circuit protection (/P)
 RS	2	4.5-9, 9-18, 9-36, 18-36, 18-72, 36-72	3.3, 5, 9, 12, 15, ±3.3, ±5, ±9, ±12, ±15	1, 2, or 3 kVDC / 1 s	SIP8	21.8 x 9.2 x 11.1 mm (0.9” x 0.4” x 0.4”)	EN/IEC/UL60950-1	Operating temperature range: -40°C to +85°C 2:1 or 4:1 input voltage availabe (Z) low cost series available (RSE)
 RSE (Z)	2	4.5-9, 18-36, (Z): 4.5-18, 9-36	5	2 kVDC / 1 s	SIP8	21.8 x 9.2 x 11.1 mm (0.9” x 0.4” x 0.4”)	UL60950-1 IEC/EN/UL62368-1	Operating temperature range: -40°C to +75°C 2:1 or 4:1 input voltage availabe (Z) **cost efficient**
 RTC2	2	4.5-9, 18-36	5	3 kVDC / 1 s	SMD	14.9 x 14.2 x 9.6 mm (0.6” x 0.6” x 0.4”)	EN/IEC62368-1 EN55022	Operating temperature range: -40°C to +85°C compact SMD package, control pin (on/off) more space for PCB, tape & reel packaging (-R) **cost efficient**
new  RSH2	2	2.8-5.5, 4.5-13.2, 9-18, 18-36	3.3, 5, 12, 15, 24 ±12, ±15	2 or 3 kVDC / 1 min	SMD	18.9 x 17.2 x 8.7 mm (0.7” x 0.7” x 0.3”)	EN/IEC/ES60601-1 EN62368-1	2:1 and 3:1 wide input range voltage 2W power in compact SMD package efficiency up to 84% operating temperature range: -40°C to +100 °C
 RW2	2	4.5-9, 9-18, 18-36, 36-72	3.3, 5, 12, 15, ±5, ±9, ±12, ±15	1, 2, or 3 kVDC / 1 s	Mini DIP16 DIP16 SMD	22.1 x 12.55 x 8.5 mm (0.9” x 0.5” x 0.3”) 24.2 x 14.50 x 9.7 mm (1.0” x 0.6” x 0.4”) 24.2 x 14.50 x 10.2mm (1.0” x 0.6” x 0.4”)	IEC/EN60950-1	Operating temperature range: -40°C to +85°C DIP16 Mini smaller case size (/B) SMD version available (/SMD)
 REC3A	3	4.5-9, 18-36	5	2 kVDC / 1 s	DIP24	31.8 x 20.3 x 10.2 mm (1.3” x 0.8” x 0.4”)	UL60950-1 IEC/EN62368-1 EN55022	Operating temperature range: -40°C to +100°C no minimum load required UVLO option **cost efficient**
 REC3-RW	3	4.5-9, 9-18, 9-36, 18-36, 18-72, 36-72	3.3, 5, 9, 12, 15, ±5, ±12, ±15	2, 4, or 6 kVDC / 1 s	DIP24 SMD	32.0 x 20.3 x 10.2 mm (1.3” x 0.8” x 0.4”) 32.0 x 19.9 x 11.2 mm (1.3” x 0.8” x 0.4”)	EN/UL60950-1	Operating temperature range: -40°C to +80°C SMD package (/SMD) or metal case (/M) tape & reel packaging (-R) 4:1 input voltage availabe (Z)

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DC/DC CONVERTERS

REGULATED

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- Isolation voltages up to 10 kVDC
- Short circuit protection
- Optional heatsinks available
- Low cost series available
- Custom design available
- RoHS compliant
- REACH compliant
- Warranty up to 5 years
- EAC marked
- (-R) – tape & reel packaging
- (/P) – short circuit protection
- (Z), (W) – wide input range
- (-HC) – heatsink available
- (/SMD) – surface mount device
- (/M) – metal case

Series	Power (W)	Vin (VDC)	Vout (VDC)	Isolation	Case / Dimensions (LxWxH)		Certifications	Other features
 REM3	3	4.5-9, 9-18, 9-36, 18-36, 18-75, 36-75	3.3, 5, 12, 15, 24, ±5, ±12, ±15	5 kVAC / 1min	DIP24	31.8 x 20.3 x 10.4 mm (1.3” x 0.8” x 0.4”)	ES/IEC/EN60601-1 EN55011 EN60601-1,-2	Medical approved, 2MOPP for patient safety reinforced isolation for 250VAC working voltage CF rated outputs, 5000m altitude operating temperature range: -40°C to +100°C
 RS3	3	4.5-9, 9-18, 9-27, 18-36, 20-60, 36-72	3.3, 5, 9, 12, 15, ±3.3, ±5, ±9, ±12, ±15	1, 2, or 3 kVDC / 1 s	SIP8	21.8 x 9.2 x 11.1 mm (0.9” x 0.4” x 0.4”)	IEC/EN60950-1	Operating temperature range: -40°C to +71°C high power density, control pin (on/off)
new  RS3E	3	4.5-9, 9-18, 18-36, 36-72	3.3, 5, 9, 12, 15, 24	3kVDC	SIP8	21.8 x 9.2 x 11.1 mm (0.9” x 0.4” x 0.4”)	UL62368-1 IEC/EN62368-1 IEC60950-1	Operating temperature range: -40°C to +75°C 2:1 wide input range voltage effiency up to 81%, (/P)
new  RSH3	3	9-18, 18-36	5, 12, 15, 24 ±12, ±15	3 kVDC / 1min	SMD	18.9 x 17.2 x 8.7 mm (0.7” x 0.7” x 0.3”)	EN/IEC/ES60601-1 EN62368-1	2:1 wide input range voltage 3W power in compact SMD package efficiency up to 83% operating temperature range: -40°C to +100 °C
 RW	3	4.5-9, 9-18, 18-36, 36-72	3.3, 5, 9, 12, 15, ±5, ±9, ±12, ±15	1 kVDC / 1 s (S) 3 kVDC / 1 s (D)	DIP24 SMD	32.3 x 14.7 x 7.0 mm (S) (1.3” x 0.6” x 0.3”) 32.0 x 17.5 x 7.0 mm (D) (1.3” x 0.7” x 0.3”)	EN60950-1	Operating temperature range: -40°C to +85°C SMD option for RW-S available (/SMD)
 Rxx-B	3 5	4.5-6; 10-14; 14-17; 21-27	41-120, 50-135, 92-200	3 kVDC / 1 s	DIP24	31.8 x 20.3 x 9.4 mm (1.3” x 0.8” x 0.4”)	EN/IEC60950-1	Adjustable output voltage up to 200VDC cascadable for output voltages up to 400VDC remote voltage programming by external voltage or resistance
 REC3.5/R	3.5	4.5-9, 9-18, 18-36, 36-75	5, 9, 12, 15, 24, ±5, ±9, ±12, ±15	8 or 10 kVDC / 1 s	DIP24	32.0 x 20.3 x 10.2 mm (1.3” x 0.8” x 0.4”)	UL60950-1 EN/IEC/UL60601-1 EN55022	Medical approved reinforced isolation (/R8 & /R10) operating temperature range: -40°C to +85°C no minimum load required
 REM3.5E	3.5	4.5-9, 9-18, 18-36, 36-75	5, 9, 12, 15, 24 ±5, ±9, ±12, ±15	8 or 10 kVDC / 1 s	DIP24 SMD	31.8 x 20.3 x 10.2 mm (1.3” x 0.8” x 0.4”) 31.8 x 20.3 x 11.2 mm (1.3” x 0.8” x 0.4”)	EN/IEC/UL60601-1 IEC60601-1-2	2MOPP, 250VAC working voltage isolation clearance and creepage distance >8mm up to 10kVDC reinforced insulation, 2:1 wide input operating temperature range: -40°C to +85°C

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- REACH compliant
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- EAC marked
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- (/P) – short circuit protection
- (Z), (W) – wide input range
- (-HC) – heatsink available
- (/SMD) – surface mount device
- (/M) – metal case

Series	Power (W)	Vin (VDC)	Vout (VDC)	Isolation	Case / Dimensions (LxWxH)		Certifications	Other features
 REC5	5	4.5-9, 9-18, 9-36, 18-36, 18-72, 36-72	3.3, 5, 9, 12, 15, ±5, ±9, ±12, ±15	1.6, 2, 4, or 6 kVDC / 1 s	DIP24 SMD	32.0 x 20.3 x 10.2 mm (1.3" x 0.8" x 0.4") 32.0 x 19.9 x 11,2 mm (1.3" x 0.8" x 0.4")	EN/IEC/UL60950-1	Operating temperature range: -40°C to +75°C SMD package (/SMD) or metal case (/M) tape & reel packaging (-R)
 REC5A	5	4.5-9, 18-36	5	2 kVDC / 1 s	DIP24	31.8 x 20.3 x 10.2 mm (1.3" x 0.8" x 0.4")	UL60950-1 EN/IEC/UL62368-1 EN55032	Operating temperature range: -40°C to +100°C no minimum load required UVLO option **cost efficient**
 REM5E	5	4.5-9, 9-18, 18-36, 36-75	5, 9, 12, 15, 24 ±5, ±9, ±12, ±15	8 or 10 kVDC / 1 s	DIP 24 SMD	31.8 x 20.3 x 10.2 mm (1.3" x 0.8" x 0.4") 31.8 x 20.3 x 11.2 mm (1.3" x 0.8" x 0.4")	EN/IEC/UL60601-1 EN/IEC60601-1-2 EN55032 EN55024	2MOPP, 250VAC working voltage isolation clearance and creepage distance >8mm up to 10kVDC reinforced insulation, 2:1 wide input operating temperature range: -40°C to +85°C no derating
 REC6A	6	4.5-9, 18-36	5	2 kVDC / 1 s	DIP24	31.8 x 20.3 x 10.2 mm (1.3" x 0.8" x 0.4")	UL623368-1 UL60950-1 EN/IEC62368-1 EN55032	Operating temperature range: -40°C to +100°C no minimum load required UVLO option **cost efficient**
 REC6/R	6	4.5-9, 9-18, 18-36, 36-75	5, 9, 12, 15, 24, ±5, ±9, ±12, ±15	8 or 10 kVDC / 1 s	DIP24	32.0 x 20.3 x 10.2 mm (1.3" x 0.8" x 0.4")	UL60950-1 EN/IEC/UL60601-1	Medical approved reinforced isolation (/R8 & /R10) operating temperature range: -40°C to +75°C no derating
 REM6	6	4.5-9, 9-18, 9-36, 18-36, 18-75, 36-75	3.3, 5, 12, 15, 24, ±5, ±12, ±15	5 kVAC / 1 min	DIP24	31.8 x 20.3 x 10.4 mm (1.3" x 0.8" x 0.4")	ES/IEC60601-1 EN55011 EN60601-1-2	Medical approved, 2MOPP for patient safety reinforced isolation for 250VAC working voltage CF rated outputs, 5000m altitude operating temperature range: -40°C to +100°C
 REM6E	6	9-18, 18-36, 36-75	9, 12, 15, 24 ±9, ±12, ±15	8 or 10 kVDC / 1 s 6 kVDC / 1 s (SMD)	DIP24 SMD	31.8 x 20.3 x 10.2 mm (1.3" x 0.8" x 0.4") 31.8 x 20.3 x 10.9 mm (1.3" x 0.8" x 0.43")	EN/IEC/UL60601-1 IEC60601-1-2 EN55032 EN55024	2MOPP, 250VAC working voltage isolation clearance and creepage distance >8mm up to 10kVDC reinforced insulation, 2:1 wide input operating temperature range: -40°C to +75°C no derating
 RS6	6	4.5-9, 9-18, 18-36, 36-75	3.3, 5, 12, 15, ±5, ±12, ±15	1.6 kVDC / 1 min 2 kVDC / 1 s	SIP8	21.8 x 9.2 x 11.1 mm (0.9" x 0.4" x 0.4")	EN60950-1 EN/IEC62368-1 EN55022 EN55024	Very high power density operating temperature range -40°C to +75°C no derating

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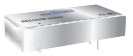
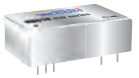
Series	Power (W)	Vin (VDC)	Vout (VDC)	Isolation	Case / Dimensions (LxWxH)		Certifications	Other features
 REC7.5-RW	7.5	9-18, 18-36, 36-72	3.3, 5, 9, 12, 15, ±5, ±9, ±12, ±15	1, 2, or 3 kVDC / 1 s	DIP24 SMD	32.0 x 20.3 x 10.5 mm (1.3" x 0.8" x 0.4") 32.0 x 19.9 x 11.2 mm (1.3" x 0.8" x 0.4")	EN/IEC/UL60950-1	Operating temperature range: -40°C to +71°C no derating SMD package (/SMD) available tape & reel packaging (-R)
 REC8-RW(Z)	8	4.5-9, 9-18, 18-36, 36-75, 9-36, 18-75 (Z)	3.3, 5, 12, 15, ±5, ±12, ±15	2 or 3 kVDC / 1 s	DIP24 SMD	32.0 x 20.3 x 10.2 mm (1.3" x 0.8" x 0.4") 32.0 x 19.9 x 11.2 mm (1.3" x 0.8" x 0.4")	EN/IEC/UL60950-1	Operating temperature range: -40°C to +85°C no derating, SMD package (/SMD) available tape & reel packaging (-R) 4:1 input voltage available (Z)
new  REC8E	8	9-18, 18-36, 20-60	5, 9, 12, 15, 24 ±12, ±15	1.6 kVDC / 1 min	1" x 1"	25.4 x 25.4 x 10.5 mm (1.0" x 1.0" x 0.4")	EN/IEC/UL62368-1 IEC60950-1	2:1 input voltage range, compact 1 x1" package CTRL and UVLO standard Operating temperature range:-40°C to +75°C no derating
 RP08-A(W)	8	9-18, 18-36, 36-75 9-36, 18-75, 43-160 (W)	3.3, 5, 12, 15, ±5, ±12, ±15	1.6 kVDC / 1 min	DIP24 SMD	31.8 x 20.3 x 10.2 mm (1.3" x 0.8" x 0.4") 32.0 x 20.3 x 11.2 mm (1.3" x 0.8" x 0.4")	EN/IEC/UL60950-1 EN50155 EN50121-3-2 EN55032	Operating temperature range: -40°C to +85°C RP08-AW designed for railway applications 4:1 input voltage available (W)
 REC10/M(Z)	10	9-18,18-36, 36-75 9-36, 18-75 (Z)	3.3, 5, 12, 15, ±5, ±12, ±15	2 or 3 kVDC / 1 s	2" x 1"	50.8 x 25.4 x 10.2 mm (2.0" x 1.0" x 0.4")	EN/IEC/UL60950-1	Operating temperature range: -40°C to +81°C no derating 2:1 or 4:1 input voltage available high isolation
 REC10-RW(Z)	10	9-18, 18-36, 36-75 9-36, 18-75 (Z)	3.3, 5, 12, 15, ±5, ±12, ±15	2 or 3 kVDC / 1 s	DIP24 SMD	32.0 x 20.3 x 10.2 mm (1.3" x 0.8" x 0.4") 32.0 x 19.9 x 11.2 mm (1.3" x 0.8" x 0.4")	EN/IEC/UL60950-1	Operating temperature range: -40°C to +81°C no derating, SMD package (/SMD) available 2:1 and 4:1 input voltage available (Z), high isolation
 REM10	10	4.5-9, 9-18, 18-36, 36-75 9-36, 18-75 (W)	3.3, 5, 12, 15, 24, ±5, ±12, ±15	5 kVAC / 1 min	DIP24	31.8 x 20.3 x 10.4 mm (1.3" x 0.8" x 0.4")	EN/IEC60601-1 EN55011 EN60601-1-2	Medical approved, 2MOPP for patient safety reinforced isolation for 250VAC working voltage CF rated outputs, 5000m altitude operating temperature range: -40°C to +100°C
 RP10-A(W)	10	9-18, 18-36, 36-75 9-36, 18-75, (W)	3.3, 5, 12, 15, 24, ±5, ±12, ±15	1.6 kVDC / 1 min	1" x 1"	25.4 x 25.4 x 9.9 mm (1.0" x 1.0" x 0.4")	UL60950-1 EN55038	Operating temperature range: -40°C to +78°C no derating optional heatsink with clamps (-HC) 4:1 input voltage available (W)

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- (-HC) – heatsink available
- (/SMD) – surface mount device
- (/M) – metal case

Series	Power (W)	Vin (VDC)	Vout (VDC)	Isolation	Case / Dimensions (LxWxH)		Certifications	Other features
 RP10-E(W)	10	9-18, 18-36, 36-75 9-36, 18-75, (W)	3.3, 5, 12, 15, ±5, ±12, ±15	1.6 kVDC / 1 min	2" x 1"	50.8 x 25.4 x 10.2 mm (2.0" x 1.0" x 0.4")	UL60950-1 EN55032	Operating temperature range: -40°C to +78°C no derating optional heatsink with clamps (-HC) 4:1 input voltage available (W)
new  RS12-Z	12	9-36, 18-75	3.3, 5, 12, 15, 24	3 kVDC / 1 min	SIP8	21.8 x 9.6 x 12.1 mm (0.9" x 0.4" x 0.5")	UL/IEC/EN62368-1 EN55032	Very high power density operating temperature range: -40°C to +80°C 4:1 input voltage
 RP12-A(W)	12	9-18, 18-36, 36-75 9-36, 18-75, (W)	3.3, 5.1, 12, 15, ±5, ±12, ±15	1.6 kVDC / 1 min	DIP24 SMD	31.8 x 20.3 x 10.2 mm (1.3" x 0.8" x 0.4") 32.0 x 20.3 x 11.2 mm (1.3" x 0.8" x 0.4")	UL60950-1 EN55032	Operating temperature range: -40°C to +105°C 4:1 input voltage available (W)
 RP12-AR	12	36-160	3.3, 5, 12, 15, 24, ±12, ±15, ±24	3 kVDC / 1 min	1" x 1"	25.4 x 25.4 x 9.9 mm (1.0" x 1.0" x 0.4")	IEC/EN60950-1 EN550155 EN55032	Operating temperature range: -40°C to +100°C efficiency up to 90% compact 1"x1" case size
 REC15E-Z	15	9-36, 18-75	3.3, 5, 12, 15, 24, ±12, ±15	2 kVDC / 1 s	1" x 1"	25.4 x 25.4 x 10 mm (1.0" x 1.0" x 0.4")	EN/IEC/UL62368-1 EN55032	4:1 wide input voltage range, compact size 1" x 1" package, Efficiency up to 90% operating temperature range: -40°C to + 75°C no derating, continuous short circuit protection
 REC15/M(Z)	15	9-18, 18-36, 36-75 9-36, 36-75 (Z)	3.4, 5.1, 12, 15, ±5, ±12, ±15	2 or 3 kVDC / 1 s	2" x 1"	50.8 x 25.4 x 10.2 mm (2.0" x 1.0" x 0.4")	EN/IEC/UL60950-1 EN/IEC60601-1	Operating temperature range: -40°C to +71°C no derating 2:1 and 4:1 input voltage available (Z), without CTRL pin (/X2)
 REM15-W	15	9-36, 18-75	5, 12, 15, 24 ±5, ±12, ±15	5 kVAC / 1 min	1.6" x 1"	40.6 x 25.4 x 10.2 mm (1.6" x 1.0" x 0.4")	IEC/UL60950-1 UL62368-1 EN55011 IEC/ES60601-1	Reinforced insulation for 250VAC working voltage, clearance and creepage distance > 8mm 5kVAC I/P to O/P 2MOPP isolation operating temperature range: -40°C to +105°C
 RP15-A(W)	15	9-18, 18-36, 36-75 9-36, 18-75, (W)	3.3, 5, 12, 15, ±5, ±12, ±15	1.6 kVDC / 1 min	1" x 1"	25.4 x 25.4 x 9.9 mm (1.0" x 1.0" x 0.4")	UL60950-1 EN55032	Operating temperature range: -40°C to +105°C optional heatsink with clamps (-HC) 4:1 input voltage available (W)

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Series	Power (W)	Vin (VDC)	Vout (VDC)	Isolation	Case / Dimensions (LxWxH)		Certifications	Other features
 RP15-F(W)	15	9-18, 18-36, 36-75 9-36, 18-75, (W)	3.3, 5, 12, 15, ±5, ±12, ±15	1.6 kVDC / 1 min	2" x 1"	50.8 x 25.4 x 10.2 mm (2.0" x 1.0" x 0.4")	UL60950-1 EN55032	Operating temperature range: -40°C to +105°C optional heatsink with clamps (-HC) 4:1 input voltage available (W)
 RPM(D)	15-60	9.5-18, 9.5-36, 10-40, (D) 18-36, 18-75, 36-75	3.3, 5, 12, 15, ±5, ±12, ±15 5/±12, 5/±15	1.6 kVDC / 1 min		101.6 x 57.2 x 19.0 mm (4.0" x 2.3" x 0.7") 24.5 x 57.6 x 125.0 mm (D) (1.0" x 2.3" x 4.9")	EN/IEC60950-1 EN55022	Reverse polarity protected, soft start panel mount/bulkhead version RPM DIN-Rail version RPMD, screw terminals CE and EAC marked, triple Output only for 40W version available
 REC20 (Z)	20	9-18, 9-36, 18-36, 18-75, 36-75	3.4, 5.1, 12, 15 ±5, ±12, ±15	1.6 kVDC / 1 min	2" x 1"	50.8 x 25.4 x 10.2 mm (2.0" x 1.0" x 0.4") 50.8 x 25.4 x 10.5 mm (Z) (2.0" x 1.0" x 0.4")	EN/IEC/UL60950-1 EN55022	Operating temperature range: -40°C to +100°C continuous short circuit protection 4:1 input voltage available (Z) full load up to +80°C with natural convection
 REM20-W	20	9-36, 18-75	5, 12, 15, 24 ±5, ±12, ±15	5 kVAC / 1 min	1.6" x 1"	40.6 x 25.4 x 10.2 mm (1.6" x 1.0" x 0.4")	IEC/UL60950-1 UL62368-1 EN55011 IEC/ES60601-1	Reinforced insulation for 250VAC working voltage, clearance and creepage distance > 8mm 5kVAC I/P to 0/P 2MOPP isolation 4:1 input voltage available
 RSP20-168	20	40-160	168VDC Clamping Voltage	N/A	DIP24	31.8 x 20.3 x 10.2 mm (1.3" x 0.8" x 0.4")	UK BRB/RIA12 NF F 01-510	Output follows input up to the clamp voltage compliant with RIA12 and NF F 01-510 surge susceptibility operating temperature range: -40°C to +100°C
 RP20-A(W)	20	9-18, 18-36, 36-75 9-36, 18-75, (W)	3.3, 5, 12, 15, ±12, ±15	1.6 kVDC / 1 min	1" x 1"	25.4 x 25.4 x 9.9 mm (1.0" x 1.0" x 0.4")	UL60950-1 EN55032	Operating temperature range: -40°C to +102°C optional heatsink with clamps (-HC) 4:1 input voltage available (W)
 RP20-F(W)	20	9-18, 18-36, 36-75 9-36, 18-75, (W)	3.3, 5, 12, 15, ±12, ±15	1.6 kVDC / 1 min	2" x 1"	50.8 x 25.4 x 10.2 mm (2.0" x 1.0" x 0.4")	UL60950-1 EN55032	Operating temperature range: -40°C to +105°C optional heatsink with clamps (-HC) 4:1 input voltage available (W)
 RP20-FR	20	9-36, 18-75 43-160	3.3, 5, 12, 15, ±12, ±15	2.25 kVDC / 1 min	2" x 1"	50.8 x 25.4 x 10.2 mm (2.0" x 1.0" x 0.4")	UL60950-1 EN50155 EN55011 EN55032	Designed for railway applications, operating temperature range: -40°C to +79°C, up to +85°C (-HC) with natural convection, optional heatsink with clamps (-HC), CE and EAC marked

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REGULATED

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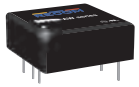
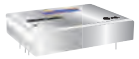
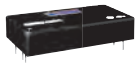
- Isolation voltages up to 10 kVDC
- Short circuit protection
- Optional heatsinks available
- Low cost series available
- Custom design available
- RoHS compliant
- REACH compliant
- Warranty up to 5 years
- EAC marked
- (-R) – tape & reel packaging
- (/P) – short circuit protection
- (Z), (W) – wide input range
- (-HC) – heatsink available
- (/SMD) – surface mount device
- (/M) – metal case

Series	Power (W)	Vin (VDC)	Vout (VDC)	Isolation	Case / Dimensions (LxWxH)		Certifications	Other features
 RPA20-AW	20	9-36	3.3, 5, 12, 15, ±12, ±15	1.6 kVDC / 1 min	1" x 1"	25.4 x 25.4 x 10.2 mm (1.0" x 1.0" x 0.4")	EN/IEC/UL60950-1 EN50155 EN55032	Designed for low cost industrial applications operating temperature range: -40°C to +85°C optional glued heatsink (-HC)
 REC30 (Z)	30	9-18, 18-36, 36-75 9-36, 18-75, (Z)	3.4, 5.1, 12, 15 ±12, ±15	1.6 kVDC / 1 min	2" x 1.6"	50.8 x 40.6 x 10.2 mm (2.0" x 1.6" x 0.4")	EN/IEC/UL60950-1 EN55032	Operating temperature range: -40°C to +70°C continuous short circuit protection 4:1 input voltage available (-Z)
 REM30-W	30	9-36, 18-75	5, 12, 15, 24 ±5, ±12, ±15	5 kVAC / 1 min	2" x 1"	50.8 x 25.4 x 10.2 mm (2.0" x 1.0" x 0.4")	EN/IEC/UL60950-1 UL62368-1 EN55011 IEC/ES60601-1	Reinforced insulation for 250VAC working voltage, clearance and creepage distance > 8mm, 5kVAC I/P to O/P 2MOPP isolation, industry standard pinout, 4:1 input voltage available
 RP30-E(W)	30	9-18, 18-36, 36-75 10-40, 18-75, (W)	3.3, 5, 12, 15, ±12, ±15	1.6 kVDC / 1 min	2" x 1.6"	50.8 x 40.6 x 10.2 mm (2.0" x 1.6" x 0.4")	UL60950-1 EN55032	Operating temperature range: -40°C to +100°C optional heatsink with clamps (-HC) 4:1 input voltage available (W)
 RP30-F(W)	30	9-18, 18-36, 36-75 9-36, 18-75, (W)	3.3, 5, 12, 15, ±5, ±12, ±15	1.6 kVDC / 1 min	2" x 1"	50.8 x 25.4 x 10.2 mm (2.0" x 1.0" x 0.4")	UL60950-1 EN55032	Operating temperature range: -40°C to +101°C optional heatsink with clamps (-HC) 4:1 input voltage available (W)
 RPA30-AW	30	9-36	3.3, 5, 12, 15, ±12, ±15	1.6 kVDC / 1 min	1" x 1"	25.4 x 25.4 x 10.2 mm (1.0" x 1.0" x 0.4")	EN/IEC/UL60950-1 EN50155 EN55032	Designed for railway and industrial applications, operating temperature range: -40°C to +100°C optional glued heatsink (-HC)
 RP40-FR	40	9-36, 18-75, 43-160	3.3, 5, 12, 15, 24, ±12, ±15, ±24	1.6 or 3 kVDC / 1 min	2" x 1"	50.8 x 25.4 x 10.2 mm (2.0" x 1.0" x 0.4")	UL60950-1 EN50155 EN50121-3-2 EN55032	Designed for railway applications operating temperature range: -40°C to +105°C optional heatsink with clamps (-HC) CE and EAC marked
 RP40-G(W)	40	9-18, 18-36, 36-75 9-36, 18-75, (W)	3.3, 5, 12, 15, ±12, ±15 5/±12, 5/±15	1.6 kVDC / 1 min	2" x 2"	50.8 x 50.8 x 10.2 mm (2.0" x 2.0" x 0.4")	UL60950-1 EN55032	Operating temperature range: -40°C to +100°C optional heatsink with clamps (-HC) 4:1 input voltage available (W) available as power module RPM40-G(W)

DC/DC CONVERTERS

REGULATED

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- (-R) – tape & reel packaging
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Series	Power (W)	Vin (VDC)	Vout (VDC)	Isolation	Case / Dimensions (LxWxH)		Certifications	Other features
 RP40Q-RUW	40	16-160	5, 12, 15, 24, 48	3 kVAC / 1 min	1/4 brick	57.9 x 36.8 x 12.7 mm (2.3" x 1.4" x 0.5")	EN/IEC/UL62368-1 EN50155 EN55032 EN55034	12:1 ultra-wide input voltage range operating temperature range: -40°C to +105°C optional heatsink (-HC) CE marked
 RPA50S-W	50	18-75	3.3, 5, 12	2.25 kVDC / 1 min	1/16 brick	33.0 x 22.8 x 9.5 mm (1.3" x 0.9" x 0.4")	EN/IEC/UL60950-1 EN55032	Low cost remote on/off and trim pins efficiency up to 91% Operating temperature range: -40°C to +85°C
 RP60-G	60	18-36, 36-75	3.3, 5, 12, 15	1.6 kVDC / 1 min	2" x 2"	50.8 x 50.8 x 10.2 mm (2.0" x 2.0" x 0.4")	UL60950-1	Operating temperature range: -40°C to +110°C optional heatsink with clamps (-HC) available as power module RPM60-G
 RP60Q-RUW	60	16-160	5, 12, 15, 24, 48	3 kVAC / 1 min	1/4 brick	57.9 x 36.8 x 12.7 mm (2.3" x 1.4" x 0.5")	EN/IEC/UL62368-1 EN50155 EN55032 EN55034	12:1 ultra-wide input voltage range operating temperature range: -40°C to +105°C optional heatsink (-HC) CE marked
 RPA60-FW	60	9-36	5, 12, 15, 24	1.5 kVDC / 1 min	2" x 1"	50.8 x 25.4 x 10.2 mm (2.0" x 1.0" x 0.4")	EN/IEC/UL60950-1 EN50155 EN55032 EN50121-3-2	Designed for railway and industrial applications operating temperature range: -40°C to +100°C optional glued heatsink (-HC)
 RP75H-RW	75	9-36, 18-75, 43-160	5, 12, 15, 24, 48	2.25 kVDC / 1 min 3 kVAC / 1 min	1/2 brick	61.0 x 57.9 x 12.7 mm (2.4" x 2.3" x 0.5")	EN/IEC/UL60950-1 EN50155 EN55011 EN55032	Designed for railway and industrial applications operating temperature range: -40°C to +100°C 3 kVAC / 1 min reinforced isolation for 110VDC optional heatsink (-HC), CE and EAC marked
 RP90Q-RW	90	9-36, 16.5-75, 40-160	5, 12, 15, 24, 48	2.25 kVDC / 1 min 3 kVAC / 1 min	1/4 brick	57.9 x 36.8 x 12.7 mm (2.3" x 1.4" x 0.5")	EN/IEC60950-1 EN50155 EN55011 EN55032	Designed for railway and industrial applications, operating temperature range: -40°C to +95°C, 3 kVAC / 1 min reinforced isolation for 110VDC, optional heatsink (-HC), CE and EAC marked
 RP100H-RW	100	9-36, 16.5-75, 43-160	5, 12, 15, 24, 48	2.25 kVDC / 1 min 3 kVAC / 1 min	1/2 brick	61.0 x 57.9 x 12.7 mm (2.4" x 2.3" x 0.5")	EN/IEC/UL60950-1 EN50155 EN55011 EN55032	Designed for railway and industrial applications operating temperature range: -40°C to +105°C 3 kVAC / 1 min reinforced isolation for 110VDC optional heatsink (-HC), CE and EAC marked

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DC/DC CONVERTERS

REGULATED

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- (Z), (W) – wide input range
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Series	Power (W)	Vin (VDC)	Vout (VDC)	Isolation	Case / Dimensions (LxWxH)		Certifications	Other features
 RPA100H-RUW	100	16.5-140	12, 15, 24, 48	4.242 kVDC / 1 min	1/2 brick	60.6 x 63.1 x 13.0 mm (2.4" x 2.5" x 0.5")	EN/IEC/UL60950-1 EN50155 EN50121-2-3 EN55032	Designed for railway and industrial applications operating temperature range: -40°C to +97°C 4.242 kVDC reinforced isolation 10:1 ultra wide input range, CE and EAC marked
 RP120Q-RW	120	9-36, 16.5-75, 40-160	5, 12, 15, 24, 48	2.25 kVDC / 1 min 3 kVAC / 1 min	1/4 brick	57.9 x 36.8 x 12.7 mm (2.3" x 1.4" x 0.5")	EN/IEC60950-1 EN50155 EN55011 EN55022	Designed for railway and industrial applications operating temperature range: -40°C to +95°C 3 kVAC / 1 min reinforced isolation for 110VDC optional heatsink (-HC), CE and EAC marked
 RSP150-168	150	40-160	168VDC Clamping Voltage	N/A	1.6" x 1"	40.6 x 25.4 x 10.2 mm (1.6" x 1.0" x 0.4")	UK BRB/RIA12 NF F 01-510	Output follows input up to the clamp voltage operating temperature range: -40°C to +100°C compliant to RIA12 and NF F 01-510 surge susceptibility
new  RPA150E-EW	150	9-60	12, 24, 48	3 kVDC / 1min	1/8 brick	58.4 x 22.9 x 12.9mm (2.3" x 0.9" x 0.5")	EN/IEC/UL60950-1 EN/IEC/UL62368-1 EN50155 EN45545-2	Designed for railway and industrial applications efficiency up to 92 % wide +/-20% output voltage trim range operating temperature range: -40°C to +85°C no minimum load required
new  RPA150Q-RUW	150	14.4 - 170	12, 15, 24, 54	4.242 kVDC / 1min	1/4 brick	60.6 x 39.0 x 12.7 mm (2.29" x 1.5" x 0.5")	UL62368-1 EN45545 EN50155 (pending)	Designed for railway and industrial applications efficiency up to 90% output over-voltage protection operating temperature range: -40°C to 100°C reinforced isolation, 16:1 ultra-wide input
 RP180H-RW	180	9-36, 16.5-75, 43-160	5, 12, 15, 24, 48	2.25 kVDC / 1 min 3 kVAC / 1 min	1/2 brick	61.0 x 57.9 x 12.7 mm (2.4" x 2.3" x 0.5")	EN/IEC/UL60950-1 EN50155 EN55011 EN55032	Designed for railway and industrial applications operating temperature range: -40°C to +110°C, 4.242 kVDC / 1 min reinforced isolation for 110VDC, optional heatsink (-HC), CE and EAC marked
 RPA200H-RUW	200	16.5-140	12, 15, 24, 48	4.242 kVDC / 1min	1/2 brick	60.6 x 63.1 x 13.0mm (2.4" x 2.5" x 0.5")	EN/IEC/UL60950-1 EN50155	Designed for railway and industrial applications operating temperature range: -40°C to +93.5°C 4.242 kVDC / 1 min reinforced isolation 10:1 ultra wide input range, CE and EAC marked
 RP240H-RW	240	9-36, 16.5-75, 43-160	5, 12, 15, 24, 48	2.25 kVDC / 1 min 3 kVAC / 1 min	1/2 brick	61.0 x 57.9 x 12.7 mm (2.4" x 2.3" x 0.5")	EN/IEC/UL60950-1 EN50155 EN55011 EN55022	Designed for railway and industrial applications operating temperature range: -40°C to +110°C 3 kVAC / 1 min reinforced isolation for 110VDC optional heatsink (-HC), CE and EAC marked

DC/DC CONVERTERS

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Series	Power (W)	Vin (VDC)	Vout (VDC)	Isolation	Case / Dimensions (LxWxH)	Certifications	Other features
 RSP300-168	300	40-160	168VDC Clamping Voltage	N/A	1.6” x 1” 40.6 x 25.4 x 10.2 mm (1.6” x 1.0” x 0.4”)	UK BRB/RIA12 NF F 01-510	Output follows input up to the clamp voltage operating temperature range: -40°C to +100°C compliant to RIA12 and NF F 01-510 surge susceptibility

POWER SOLUTIONS

PLUG & PLAY

- 150 to 1000 watts
- Fully interchangeable with Melcher RCM-Series
- Approved after latest Railway Standards
- Very wide input voltage range
- Reverse polarity protection
- Hold-up time 10ms included
- Inrush current limitation
- Compact design
- Output decoupling with O-Ring diode
- Remote control and Power good signal
- No external components needed
- Custom design available
- Output voltage adjustable -20…+5%

Series	Power (W)	Vin (VDC)	Vout (VDC)	Isolation	Case / Dimensions (LxWxH)	Certifications	Other features
 RMD150	150	14.4-50.4 43.2-154	12, 24	2 kVAC	164,5 x 96 x 36,5 mm (6.5” x 3.8” x 1.4”)	EN50155 (S2) EN62368 EN50121-3-2 EN50124-1 EN45545-2 EN61373	Input for 24/36V and 72/110V efficiency up to 93% designed for natural convection
 RMD300	300	14.4-50.4 43.2-154	12, 24	2 kVAC	188.6 x 116 x 38.5 mm (7.4” x 4.6” x 1.5”)	EN50155 (S2) EN62368, EN50121-3-2 EN50124-1 EN45545-2 EN61373	Input for 24/36V and 72/110V efficiency up to 93% designed for natural convection
 RMD500	500	43.2-154	24	2 kVAC	200 x 141 x 40 mm (7.9” x 5.6” x 1.6”)	EN50155 (S2) EN62368 EN50121-3-2 EN50124-1 EN45545-2 EN61373	Input for 72/110V efficiency up to 96% designed for natural convection and base plate cooling
 RMD1000	1000	43.2-154	24	2 kVAC	200 x 141 x 46 mm (7.9” x 5.6” x 1.8”)	EN50155 (S2) EN62368 EN50121-3-2 EN50124-1 EN45545-2 EN61373	Input for 72/110V efficiency up to 96% designed for natural convection and base plate cooling

new

new

new

new

DC/DC CONVERTERS

IGBT / SiC MOSFET / GaN

- Designed for SiC/IGBT/GaN gate drivers
- Up to 2 watts
- Isolation voltages up to 6.4 kVDC
- Alternate pinout and package styles
- Asymmetric output
- High efficiency
- High isolation
- (/P) – short circuit protection
- RoHS compliant
- REACH compliant
- Safety certified
- Warranty up to 3 years

Series	Power (W)	Vin (VDC)	Vout (VDC)	Isolation	Case / Dimensions (LxWxH)		Certifications	Other features
 RH-xx1509D	1	5, 12, 24	+15/-9	3 or 4 kVDC / 1 s	SIP7	19.65 x 7.05 x 10.2 mm (0.8” x 0.3” x 0.4”)	IEC/EN60950-1	Asymmetrical outputs designed for isolated IGBT drivers operating temperature range: -40°C to +90°C continuous short circuit protection (/P)
 RP-xx1509D RP-xx06S	1	5, 12, 24 5, 12, 15, 24	+15/-9 6	5.2 kVDC / 1 s	SIP7	19.65 x 7.05 x 10.2 mm (0.8” x 0.3” x 0.4”)	EN/IEC/UL60950-1	Designed for isolated IGBT or GaN drivers operating temperature range: -40°C to +85°C RP-xx06S series medical approved
 RxxP1509D RxxP06S	1	5, 12, 24 5, 12, 15, 24	+15/-9 6	6.4 kVDC / 1 s	SIP7	19.5 x 9.8 x 12.5 mm (0.8” x 0.4” x 0.5”)	EN/IEC60950-1 EN/IEC/UL62368-1	Designed for isolated IGBT or GaN drivers operating temperature range: -40°C to +90°C continuous short circuit protection (/P)
 RGZ-xx1509D	2	5, 12, 24	+15/-9	3 or 4 kVDC / 1 s	DIP14	19.9 x 10.0 x 7.1 mm (0.8” x 0.4” x 0.3”)	EN60950-1	Asymmetrical outputs designed for isolated IGBT drivers operating temperature range: -40°C to +90°C continuous short circuit protection (/P)
 RKZ-xx1509D RKZ-xx2005D	2	5, 12, 24 5, 12, 15, 24	+15/-9 +20/-5	3 or 4 kVDC / 1 s	SIP7	19.65 x 7.05 x 10.2 mm (0.8” x 0.3” x 0.4”)	EN/IEC/UL60950-1 EN55022	Asymmetrical outputs designed for isolated IGBT/SiC drivers operating temperature range: -40°C to +100°C continuous short circuit protection (/P)
 RV-xx1509D	2	5, 12, 24	+15/-9	6 kVDC / 1 s	DIP24	32.35 x 14.7 x 11.1 mm (1.3” x 0.6” x 0.4”)	EN60950-1	Asymmetrical outputs designed for isolated IGBT drivers operating temperature range: -40°C to +90°C
 RxxP21503D RxxP21509D RxxP22005D RxxP209S	2	12, 15, 24 5, 12, 24 5, 12, 15, 24 5, 12, 15, 24	+15/-3 +15/-9 +20/-5 9	6.4 kVDC / 1 s	SIP7	19.5 x 9.8 x 12.5 mm (0.8” x 0.4” x 0.5”)	EN/IEC/UL60950-1 EN55022	Asymmetrical outputs designed for isolated IGBT/SiC drivers operating temperature range: -40°C to +95°C continuous short circuit protection (/P)

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ACCESSORIES FOR DC/DC CONVERTERS

- SMD wirewound power inductor suitable for EMC filtering
- Reflow solderable with J-STD-020C standard profile (250°C ±5°C peak)

Series	Description	Suitable for	Other features
 RLS-397	saturation current: 2.1A, inductance: 3.9µH	RI3, RS, RSO, R1Z, RS3, R-78xx-1.0, R-78xx-0.5, R-78Exx-0.5, R-78AAxx-0.5, R-78Bxx-1.5, R-78Bxx-1.0L	Tested and approved in RECOM filter design RoHS compliant SMD
 RLS-567	saturation current: 1.9A, inductance: 5.6µH	RK/H6, RI3, RS, RS3, RW2, R-78xx-1.0, R-78xx-0.5, R-78AAxx-0.5, R-78Cxx-1.0, R-78Bxx-1.5.	Tested and approved in RECOM filter design RoHS compliant SMD
 RLS-126	saturation current: 1.4A, inductance: 12µH	R1S, R2S, R1SE, RH/H6, RKZ, RS, RSO, REC5, R1Z, R-78Exx-1.0, R-78Exx-0.5, R-78Cxx-1.0, R-78Bxx-1.5.	Tested and approved in RECOM filter design RoHS compliant SMD
 RLS-186	saturation current: 2.14A, inductance: 18µH	REC5	Tested and approved in RECOM filter design RoHS compliant SMD
 RLS-226	saturation current: 1.0A, inductance: 22µH	RO, RM, ROM, RK, RB, RP, RE, ROE, RK/H6, RH/H6, RxxPxx, RKZ, REC5, RW2	Tested and approved in RECOM filter design RoHS compliant SMD
 RLS-686	saturation current: 1.05A, inductance: 68µH	R-78Exx-1.0	Tested and approved in RECOM filter design RoHS compliant SMD
 RLS-105	saturation current: 1.1A, inductance: 100µH	REC5	Tested and approved in RECOM filter design RoHS compliant SMD

EVALUATION MODULES

EVALUATION MODULES / REFERENCE DESIGNS / BREAKOUT BOARDS

Series	Description	Suitable for	Other features
 R-78S3.3-0.1-EVM-1	The R-78S3.3-0.1-EVM-1 evaluation module generates 3.3V from a single AA battery or from an external source. By using the external input source, any voltage source (other types of batteries, energy harvesters, etc.) in the range from 0.65V to 3.15V can be used. The evaluation module contains a AA battery holder, power switch, R-78S3.3-0.1 boost converter, and a micro-USB connector. Jumper headers are provided to permit various test measurements to be made.	R-78S3.3-0.1	Input and output power measurement capability micro-USB type B or 0.1" (2.54mm) pin output input voltage range down to 0.65V efficiency 93%, >80% at 10% load
 R-78S3.3-0.1-EVM-1/STM-1	The R-78S3.3-0.1-EVM-1/STM-1 is a breakout board intended for use with an ST Microelectronics STEVAL STLCS01V1 SensorTile module and the R-78S3.3-0.1-EVM-1 evaluation module to demonstrate IoT applications using the SensorTile module. Applications of the SensorTile module include MEMS digital microphone, 3D accelerometer and gyroscope, 3D magnetometer, MEMS atmospheric pressure sensor and ambient temperature.	R-78S3.3-0.1	Accessory for the R-78S3.3-0.1-EVM-1 mates with STLCS01V1
 R-78S3.3-0.1-EVM-1/SBL-1	The R-78S3.3-0.1-EVM-1/SBL-1 is a breakout board developed for use with a SensiBLE v1.0 module from SensiEDGE and the R-78S3.3-0.1-EVM-1 evaluation module to demonstrate IoT applications using the SensiBLE v1.0 module. Applications of the SensiBLE v1.0 module include 3-axis accelerometer, 3-axis magnetometer, 3-axis digital gyroscope, pressure, microphone, relative humidity, ambient light, and temperature sensors.	R-78S3.3-0.1	Accessory for the R-78S3.3-0.1-EVM-1 mates with SensiBLE v1.0
 RBB10-2.0-EVM-1	The RBB10-2.0-EVM-1 is an evaluation board for the RBB10-2.0. The Input can be lower, higher, or the same as the output. The buck-boost modules are pre-set to 5V output but can be trimmed over a range from 1 to 5.5V up to 4A output.	RBB10-2.0	2.3-5.5V input voltage (buck-boost) up to 96% efficiency, class B EMC filter thermally enhanced PCD design output sense, sense and powergood connections
 R-REF01-HB	The R-REF01-HB reference design consists of a half-bridge layout with a fully-isolated driver stage using isolated power supplies for both the low-side and the high-side switching transistors. Included in the package are four sets of different DC/DC converters which generate the appropriate isolated driver voltages for the different transistor types.	R12P22005D R12P21503D R12P21509D R12P06S	Half-bridge voltage up to 1kV TTL-compatible signal input shoot-through protection separate input for low and high-side switch
 R-REF02-78S	The R-REF02-78S generates 3.3V from a single AA battery and can be used directly in any application. The reference design contains a AA battery holder and a R-78S3.3-0.1 boost converter. Two jumper headers J1 and J2 ensure connectivity to the output voltage and the CTRL pin of the R-78S converter.	R-78S3.3-0.1	3.3V from a single AA battery (boost converter) efficiency 93% , >80% at 10% load Input range down to 0.65V 0.100" (2.54mm) pin output
 R-REF03-CAN1	The R-REF03-CAN1 reference board demonstates the ISO1042 isolated CAN transceiver supplied by the R1SX-3.305/H isolated DC/DC converter. To supply the reference board only one 3.3V external supply is required. The green LED indicates the presence of the VCC2 supply on the secondary (CAN bus) side. The reference board allows designers to develop and analyze isolated systems quickly.	R1SX-3.305/H	Complete isolated solution for CAN bus, contains galvanically-isolated CAN transceiver IS1042, up to 5Mbit data rate in CAN FD mode, input and output test points, Meets ISO11898-2 (2016)
 R-REF04-RIA12-1	The R-REF04-RIA12-1 reference design consists of a high-current (40A) PCB layout for 24V/48V operation complete with input and output connectors, RIA12 surge voltage limiter, EMC filter, Hold-up capacitors, fan output, and isolated remote enable. The universal PCB accepts 2"x1", quarter-brick, and half-brick DC/DC converters from 60W up to 240W (not supplied).	RPA60-24xxxSFQ RP75H-24(48)xxSRW, RP90Q-24(48)xxSRW, RP100H-24(48)xxSRW, RP120Q-24(48)xxSRW, RP180H-24(48)xxSRW, RP240H-24(48)xxSRW,	3 different filter component footprints for EMC filter optimization. Connectors for external hold-up capacitor bank.

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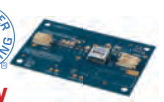
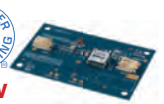
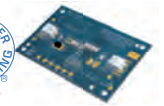
EVALUATION MODULES

EVALUATION MODULES / REFERENCE DESIGNS / BREAKOUT BOARDS

Series	Description	Suitable for	Other features
 R-REF04-RIA 12-2	The R-REF04-RIA12-2 reference design consists of a high voltage PCB layout for 96V/110V operation complete with input and output connectors, RIA12 surge voltage limiter, EMC filter, hold-up capacitor, fan output, and isolated remote enable. The universal PCB accepts 2"x1", quarter-brick, and half-brick DC/DC converters from 60W up to 240W (not supplied).	RP75H-110xxSRW RP90Q-110xxSRW RP100H-110xxSRW RP120Q-110xxSRW RP180H-110xxSRW RP240H-110xxSRW	3 different filter component footsprints for EMC filter optimization. Connectors for external hold-up capacitor bank.
new  RPL-3.0-EVM-1	The RPL-3.0-EVM-1 generates a constant output voltage selectable from 1.8V, 3.3V, or 5V from a DC input in the range of 4 – 18V. It has a maximum continuous output current of 3 A. All the functions of the RPL-3.0 such as output voltage selection, control, power good, and output sense can be readily evaluated. Also the behavior in overload or over-temperature can be evaluated easily before it is designed in. The evaluation board also contains the filter components to meet EMC Class A levels. Alternate component positions are included to allow experimentation to optimize the EMC performance depending on operating conditions and budget.	RPL-3.0	Evaluation platform for RPL-3.0 Buck Regulator Module • Thermal design considerations include • EMI Class A filter • Easy evaluation of output voltage selection, control, power good and sensing functions/rising functions
 RPMxx-1.0-EVM-1 /2.0-EVM-1 /3.0-EVM-1 /6.0-EVM-1	The RPMx3.3-xx-EVM-1 and RPM5.0-xx-EVM-1 are evaluation boards for the RPM3.3-xx and RPM5.0-xx power modules. The fitted power modules are pre-set to 3.3V or 5V output, but both can be trimmed over a 0.9V to 6.0V range. The continuous output current can be 1, 2, 3, or 6A.	RPM3.3-1.0, RPM5.0-1.0 RPM3.3-2.0, RPM5.0-2.0 RPM3.3-3.0, RPM5.0-3.0 RPM3.3-6.0, RPM5.0-6.0	3-17V input voltage (buck). Up to 99% efficiency, On board Class B EMC filter, Thermally enhanced PCB design, Output Sense, PG and SEQ connectors.
new  RPMB-2.0-EVM-1	The RPMB-2.0-EVM-1 generates a constant output voltage with an output current up to 2.0A from an external DC source. Functions of the RPMB-2.0 such as trimming, control, and sensing can be evaluated. Further the behavior in overload or over temperature can be evaluated easily before design-in.	RPMB3.3-2.0 RPMB5.0-2.0 RPMB12-2.0 RPMB15-2.0	Thermally enhanced PCB design EMI class B filter easy evaluation of control, power good, and sensing functions
new  RPMH-0.5-EVM-1	The RPMH-0.5-EVM-1 generates a constant output voltage with an output current up to 0.5A from an external DC source. All the functions of the RPMH-0.5 such as trimming, sequencing, control, and sensing can be evaluated. Additionally the behavior in overload or over temperature can be evaluated easily before design-in.	RPMH3.3-0.5 RPMH5.0-0.5 RPMH12-0.5 RPMH15-0.5 RPMH24-0.5	Thermal design considerations included EMI class B filter easy evaluation of control, power good, and sensing functions
new  RPX-1.0-EVM-1 1.5-EVM-1	The RPX-1.0-EVM-1 generates a constant output voltage selectable from 0.8V, 1.8V, 3.3V, 5V, 12V, 15V, or 24V from a DC input in the range of 4-36V. It has a maximum continuous output current of 1A.	RPX-1.0 RPX-1.5	Thermal design considerations included EMI class B filter easy evaluation of output voltage selection, control, and sensing functions
new  RPMH-1.5-EVM-1	The RPMH-1.5-EVM-1 generates a constant output voltage with an output current up to 1.5A from an external DC source. All the functions of the RPMH-1.5 like trimming, sequencing, control, and sensing can be evaluated. Further the behavior in overload or over temperature can be evaluated easily before it is designed in.	RPMH3.3-1.5 RPMH5.0-1.5 RPMH12-1.5 RPMH15-1.5 RPMH24-1.5	Evaluation platform for RPMH-1.5 Power Modules • Thermal design considerations included • EMI Class B filter • Easy evaluation of control, power good, sequencing and sensing functions
new  RPX-2.5-EVM-1	The RPX-2.5-EVM-1 generates a constant output voltage selectable from 1.8V, 3.3V or 5V from a DC input in the range of 4.5 – 28V (6V – 28V for the 5V output). It has a maximum continuous output current of 2.5 A	RPX-2.5	Thermal design considerations included EMI class B filter easy evaluation of output voltage selection, control and sensing functions

EVALUATION MODULES

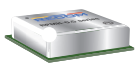
EVALUATION MODULES / REFERENCE DESIGNS / BREAKOUT BOARDS

Series	Description	Suitable for	Other features
 RPMB-3.0-EVM-1 new	The RPMB-3.0-EVM-1 generates a constant output voltage with an output current up to 3.0A from an external DC source. Functions of the RPMB-3.0 such as trimming, control, and sensing can be evaluated. Also the behavior in overload or over temperature can be evaluated easily before it design-in.	RPMB3.3-3.0 RPMB5.0-3.0 RPMB12-3.0 RPMB15-3.0	Thermal design considerations included EMI class B filter easy evaluation of control, power good, and sensing functions
 RPX-3.0-EVM-1 new	The RPX-3.0-EVM-1 generates a constant output voltage selectable from 1.8V, 3.3V, 5V, 12V, or 15V, from a DC input up to 4-36V. It has a maximum continuous output current of 3A.	RPX-3.0	Thermal design considerations included EMI class A filter easy evaluation of functions such as control and power good
 RPX-4.0-EVM-1 new	The RPX-4.0-EVM-1 generates a constant output voltage selectable from 1.8V, 3.3V, or 5V from a DC input up to 36V. It has a maximum continuous output current of 4A.	RPX-4.0	Thermal design considerations included EMI class A filter easy evaluation of functions such as control and power good
 RPX-6.0-EVM-1 new	The RPX-6.0-EVM-1 generates a constant output voltage selectable from 1.8V, 3.3V, 5V, 12V, or 15V, from a DC input up to 36V. It has a maximum continuous output current of 6A.	RPX-6.0	Thermal design considerations included EMI class A filter easy evaluation of functions such as control and power good

SWITCHING REGULATORS

STEP DOWN

- Standard pinout
- MTBF up to 21 million hours
- SC protection
- Very high efficiency up to 98%
- Internal SMD construction
- Wide operating temperature range
- No heatsink required
- Optional low cost series
- RoHS compliant
- REACH compliant
- Warranty up to 3 years
- (-R) – tape & reel packaging

Series		Output current (A)	Vin (VDC)	Vout (VDC)	Case / Dimensions (LxWxH)		Certifications	Other features
new	 R-78HE-0.3	0.3	6.5 - 72	5	SIP3	11.5 x 8.5 x 12.5 mm (0.5" x 0.3" x 0.7")	EN55032	Wide input range (6.5V - 72V) 100V surge with stand operating temperature range: -40°C to +105°C at 48V input, full load
	 R-78HB-0.5 R-78HB-24-0.3	0.5 (0.3)	9 - 72 (36 - 72)	3.3, 5, 6.5, 9, 12, 15 (24)	SIP3	11.5 x 8.5 x 17.5 mm (0.5" x 0.3" x 0.7")	EN/IEC60950-1 EN55022	Operating temperature range: -40°C to +85°C high input voltage 90° pins (L)
	 R-78HB/W	0.5	9-72	5, 12	SIP3	12.1 x 9.7 x 24.0 mm (0.5" x 0.4" x 0.9")	EN/IEC60950-1 EN55022	Operating temperature range: -40°C to +85°C high input voltage flying wires
	 R-78(E)-0.5	0.5	4.75 - 32 6 - 28 (E)	1.5, 1.8, 2.5, 3.3(E), 5(E), 6.5, 9(E), 12(E), 15(E)	SIP3	11.5 x 7.6 x 10.2 mm (0.5" x 0.3" x 0.4") 11.6 x 8.5 x 10.4 mm (E) (0.5" x 0.3" x 0.4")	EN/IEC60950-1 EN55022 EN55024	Operating temperature range: -40°C to +85°C low cost series available (R-78E-0.5) up to 97% efficiency
	 R-78W-0.5	0.5	6.5 - 32	3.3, 5, 9, 12	SIP3	11.5 x 8.5 x 17.5 mm (0.5" x 0.3" x 0.7")	EN/IEC60950-1	Operating temperature range: -40°C to +85°C flying wires up to 96% efficiency
	 R-78AA-0.5SMD	0.5	4.75 - 32	1.5, 1.8, 2.5, 3.3, 5, 6.5, 9, 12, 15	SMD	15.3 x 9.6 x 8.8 mm (0.6" x 0.4" x 0.4")	EN/IEC60950-1 EN55022	Operating temperature range: -40°C to +85°C adjustable output, on/off pin tape & reel packaging (-R) up to 97% efficiency
	 ROF-78E	0.5	5 - 36	3.3, 5, 12	SMD	12.5 x 13.5 x 4.0 mm (0.5" x 0.5" x 0.2")	EN55032	Low cost series, low profile operating temperature range: -40°C to +85°C pinless design, on/off pin
3D POWER 3D PP PACKAGING	 RPMH-0.5	0.5	4.3 - 65	3.3, 5, 12, 15, 24	LGA-25	12.19 x 12.19 x 3.75 mm (0.5" x 0.5" x 0.2")	EN55032	High input voltage, wide operating temperature: -40°C to +95°C at full load on/off, sense, trim, power good, and sequencing functions

SWITCHING REGULATORS

STEP DOWN

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- Wide operating temperature range
- No heatsink required
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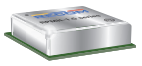
- RoHS compliant
- REACH compliant
- Warranty up to 3 years
- (-R) – tape & reel packaging

Series	Output current (A)	Vin (VDC)	Vout (VDC)	Case / Dimensions (LxWxH)		Certifications	Other features
 R-78(E)-1.0	1.0	4.75 - 18 7 - 28 (E)	1.8, 2.5, 3.3(E), 5(E), 12(E)	SIP3	11.5 x 7.6 x 10.2 mm (0.5” x 0.3” x 0.4”) 11.6 x 8.5 x 10.4 mm (E) (0.5” x 0.3” x 0.4”)	EN/IEC60950-1 EN55022 EN55024	Operating temperature range: -40°C to +85°C low cost series available (R-78E-1.0) up to 97% efficiency
 R-78AA-1.0SMD	1.0	4.75 - 18	1.5, 1.8, 2.5, 3.3, 5	SMD	15.3 x 9.6 x 8.8 mm (0.6” x 0.4” x 0.4”)	EN/IEC60950-1 EN55022	Operating temperature range: -40°C to +85°C adjustable output, on/off pin tape & reel packaging (-R)
 R-78B-1.0	1.0	4.75 - 32	1.5, 1.8, 2.5, 3.3, 5, 6.5, 9, 12, 15	SIP3	11.5 x 8.5 x 17.5 mm (0.5” x 0.3” x 0.7”)	EN/IEC60950-1 EN55022 EN55024	Operating temperature range: -40°C to +85°C 90° pins (L), input voltage up to 32V efficiency up to 97% output voltage up to 15V
 R-78C-1.0	1.0	5 - 42	1.8, 3.3, 5, 9, 12, 15	SIP3	11.6 x 8.5 x10.4 mm (0.5” x 0.3” x 0.4”)	EN/IEC60950-1 EN62301 EN55022	Operating temperature range: -40°C to +85°C output voltage up to 15V input voltage up to 42V 1 amp continuous in small package
 R-78T-1.0	1.0	7 - 42	3.3, 5, 12	SMD	23.0 x 27.2 x 10.0 mm (/AC or /AL) (0.9” x 1.1” x 0.4”) 23.0 x 29.4 x 8.0 mm (/FC) (0.9” x 1.2” x 0.3”)	N/A	Operating temperature range: -40°C to +85°C input voltage up to 42V tape & reel packaging (-R) tray packaging (-Tray)
new  RPX-1.0 RPX-1.5	1, 1.5	4 - 36	0.8-30	QFN	3.0 x 5.0 x 1.6 mm (0.1” x 0.2” x 0.06”)	N/A	SCP, OCP, OTP, and UVLO protection 3.0 x 5.0mm low profile QFN package operating temperature range: -40°C to +120°C trimmable output
 R-78B-1.5 (L)	1.5	4.5-18	3.3, 5, 6.5	SIP3	11.5 x 8.5 x 17.5 mm (0.5” x 0.3” x 0.7”)	IEC/EN60950-1	Operating temperature range: -45°C to +85°C ”L” version with 90° pins efficiency up to 95%
new  RPMH-1.5	1.5	5-60	2.64-3.63, 4-5.5, 7.2-13.2, 9-16.5 15-28	LGA-25	12.19 x 12.19 x 3.75 mm (0.5” x 0.5” x 0.2”)	EN55032	Wide input voltage range wide operating temperature: -40°C to 100°C at full load

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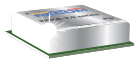
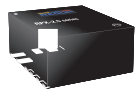
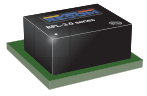
SWITCHING REGULATORS

STEP DOWN

- Standard pinout
- MTBF up to 21 million hours
- SC protection
- Very high efficiency up to 98%
- Internal SMD construction
- Wide operating temperature range
- No heatsink required
- Optional low cost series
- RoHS compliant
- REACH compliant
- Warranty up to 3 years
- (-R) – tape & reel packaging

Series		Output current (A)	Vin (VDC)	Vout (VDC)	Case / Dimensions (LxWxH)		Certifications	Other features
	R-78B-2.0	2	4.75 - 32	1.2, 1.5, 1.8, 2.5, 3.3, 5, 9, 12, 15	SIP3	11.5 x 8.5 x 17.5 mm (0.5” x 0.3” x 0.7”)	EN/IEC60950-1 EN55022 EN55024	Operating temperature range: -40°C to +85°C efficiency up to 96% input voltage up to 32V output voltage 1.2 to 15V
	R-5xxxA	2, 3, 4, 5	4.5 - 18	1.2, 1.8, 2.5, 3.3, 5	SIP12	32.2 x 9.1 x 15.0 mm (1.3” x 0.4” x 0.6”)	IEC/EN60950-1	Operating temperature range: -40°C to +85°C auto sense, adjustable output, 90° pins (DA) control pin (on/off)
	R-6xxx	1-2	9 - 32	1.8, 2.5, 3.3, 5, 9, 12	SIP12	32.2 x 9.1 x 15.0 mm (1.3” x 0.4” x 0.6”)	IEC/EN60950-1	Operating temperature range: -40°C to +85°C adjustable output, 90° pins (D) control pin (on/off) efficiency up to 97%
	R-7xxx	2, 3, 4	4.5 - 28	3.3, 5, 6.5, 9, 12, 15	SIP12	32.2 x 9.1 x 15.0 mm (1.3” x 0.4” x 0.6”)	IEC/EN60950-1	Operating temperature range: -40°C to +85°C adjustable output, 90° pins (D) control pin (on/off) efficiency up to 97%
3D POWER PP PACKAGING		RPM-1.0 RPM-2.0 RPM-3.0 RPM-6.0	1, 2, 3, 6	3-17	3.3, 5 trimmable 0.9-6.0V	LGA-25	12.19 x 12.19 x 3.75 mm (0.5” x 0.5” x 0.2”)	EN55032	Operating temperature range: -40°C to +107°C at full load, very high efficiency up to 99% 6-sided shielding for low EMI
3D POWER PP PACKAGING		RPMB-2.0 RPMB-3.0	2, 3	4 - 36	3.3, 5, 12, 15 trimmable 1-24V	LGA-25	12.19 x 12.19 x 3.75 mm (0.5” x 0.5” x 0.2”)	EN55032	Operating temperature range: -40°C to +100°C with derating, convection cooled input voltage up to 36V output voltage up to 24V
3D POWER PP PACKAGING new		RPX-2.5	2.5	4.5-28	1.2-6	QFN	4.5 x 4.0 x 2.0 mm (0.2” x 0.1” x 0.07”)	N/A	Very high power density 28V maximum input voltage 2.5A maximum output current SCP, OCP, OTP, OVP, and UVLO protection
3D POWER PP PACKAGING new		RPL-3.0	3	3-18	0.8-5.2	LGA-10	3.0 x 3.0 x 1.45 mm (0.1” x 0.1” x 0.06”)	N/A	Very high power density 3A maximum output current very low 1.45mm profile enable, sense, and power good functions

SWITCHING REGULATORS

STEP DOWN

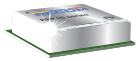
- Standard pinout
- MTBF up to 21 million hours
- SC protection
- Very high efficiency up to 98%
- Internal SMD construction
- Wide operating temperature range
- No heatsink required
- Optional low cost series
- RoHS compliant
- REACH compliant
- Warranty up to 3 years
- (-R) – tape & reel packaging

Series	Output current (A)	Vin (VDC)	Vout (VDC)	Case / Dimensions (LxWxH)	Certifications	Other features
new  RPX-3.0	3	4-36	1-18	QFN 9.0 x 7.0 x 4.0 mm (0.4” x 0.3” x 0.2”)	N/A	Very high power density 36V maximum input voltage 3A maximum output current SCP, OCP, OTP, OVP, and UVLO protection
new  RPX-4.0 coming soon!	4	3.8-36	1-7	QFN 5.0 x 5.5 x 4.0 mm (0.2” x 0.2” x 0.2”)	N/A	Very high power density 36V maximum input voltage excellent thermal performance power good, enable, and trimmable output
new  RPX-6.0 coming soon!	6	3.5-36	1-20	QFN 10.0 x 16.0 x 4.0 mm (0.3” x 0.6” x 0.2”)	N/A	Very high power density 36V maximum input voltage 20V output voltage soft start, sync, output trim, power good, enable

SWITCHING REGULATORS

BOOST & BUCK-BOOST

- Standard Pinout
- MTBF up to 21 million hours
- SC protection
- High efficiency up to 99%
- Internal SMD construction
- Wide operating temperature range
- No heatsink required
- RoHS compliant
- REACH compliant
- Warranty up to 3 years
- Ultra high specification

Series	Output current (A)	Vin (VDC)	Vout (VDC)	Case / Dimensions (LxWxH)		Certifications	Other features
BOOST							
 R-78S-0.1	0.1	0.65 - 3.3	1.8, 3.3, 3.6	SIP4	11.6 x 8.5 x 10.4 mm (0.5” x 0.3” x 0.4”)	IEC/EN62368-1 EN55022 EN55024	Designed to power microprocessors and IoT operating temperature range: -40°C to +100°C boost converter to run from single cell batteries
BUCK-BOOST							
 RBB10-2.0	4	2.3 - 5.5	1 - 5.5	LGA-25	12.19 x 12.19 x 3.75 mm (0.5” x 0.5” x 0.2”)	EN55032	7µA standby power consumption SCP, OTP, OCP dual regulation modes for optimized performance or efficiency
 RBBA3000	50	9 - 60	0 - 60	1/2 brick	60.6 x 63.2 x 13.0 mm (2.4” x 2.5” x 0.5”)	EN55032	Adjustable output voltage and current efficiency up to 96% operating temperature range: -40°C to +85°C without derating

LED DRIVERS

AC/DC CONSTANT CURRENT

- 3 to 25 watts
- Constant current or constant voltage available
- High efficiency
- Ultra-low profile packages
- Custom designs available
- Dimmable series available
- RoHS compliant
- REACH compliant
- Warranty up to 3 years

Series	Power (W)	Output current (mA)	Vin (VAC)	Vout (VDC)	Isolation	Dimensions (LxWxH)	Certifications	Other features
 RACD03	3	350 500 700	90-264 90-132	2.5-15 (3-12) 2.5-11 (3-9.5) 2.5-6 (3-4.5)	3.75 kVAC / 1 min	52.1 x 29.6 x 23.1 mm (2.1” x 1.2” x 0.9”)	UL8750 EN/IEC61347-1/.-2-13	IP66, CC/CV wired connections compact size
 RACD06	6	350 500 700	90-264	2.5-24 2.5-15 2.5-12	3.75 kVAC / 1 min	68.0 x 35.0 x 21.0 mm (2.7” x 1.4” x 0.8”)	UL8750 EN/IEC/J61347-1/.-2-13	CC/CV compact size screw terminals
 RACD06-LP	6	350 500 700	198-264	2-18 2-12 2-9	3.75 kVAC / 1 min	98.0 x 46.0 x 11.0 mm (3.9” x 1.8” x 0.4”)	EN/IEC61347-1 EN/IEC61347-2-13 EN/IEC62384	Ultra-low profile low cost screw terminals
 RACD07	7	250 350 500 700	90-295	14-28 10-20 5-14.5 3-10.5	3.75 kVAC / 1 min	57.0 x 40.8 x 24.0 mm (2.2” x 1.6” x 0.9”)	UL8750 EN61347-1 EN61347-2-13 EN61547	IP67 wired connections compact size
 RACD12-LP	12	350 500 700	198-264	2-37 2-24 2-19	3.75 kVAC / 1 min	128.0 x 50.0 x 13.0 mm (5.0” x 2.0” x 0.5”)	EN/IEC61347-1 EN/IEC61347-2-13 EN/IEC62384	Ultra-low profile, low cost screw terminals fully protected (OLP, SCP, OCP, OTP)
 RACD20-LP	20	350 500 700	198-264	2-59 2-40 2-31	3.75 kVAC / 1 min	128.0 x 50.0 x 13.0 mm (5.0” x 2.0” x 0.5”)	EN/IEC61347-1 EN/IEC61347-2-13 EN/IEC62384	Ultra-low profile, low cost screw terminals fully protected (OLP, SCP, OCP, OTP)
 RACT25	25	500 700 1050	198-264	25-50 18-36 12-24	3.75 kVAC / 1 min	120.0 x 45.0 x 28.0 mm	EN/IEC61347-1 EN/IEC61347-2-13 EN61547 EN62493 EN55015	dimmable with leading or trailing edge dimmers, class II with SELV output (no earth required)

This Selection Guide represents only the latest most popular products of our portfolio. Please check www.recom-power.com for additional products.

LED DRIVERS

DC/DC CONSTANT CURRENT

- All-in-one
- Ready to use (no external components necessary for basic use)
- High efficiency up to 96%
- PWM / digital and analog dimming
- Wide input voltage range
- Buck & buck-boost topology
- Optional flying wires (/W)
- Low emissions (built-in EMC filter)
- Short circuit protected
- Custom designs available
- Warranty up to 5 years

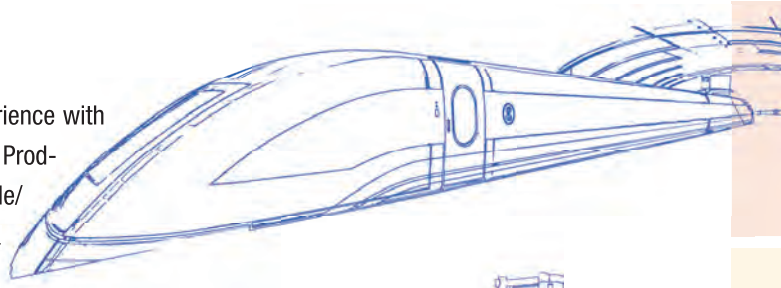
Series	Output current (A)	Vin (VDC)	Vout (VDC)	Case / Dimensions (LxWxH)		Certifications	Other features
 RCD-24 (/W)	0.3-1.2	4.5-36	2-35	DIP	22.1 x 12.55 x 8.5 mm (0.9" x 0.5" x 0.3")	EN/UL60950-1 EN61373 EN50121-3-2	Buck topology IP67 rated wired version available (/W) Vref out (/Vref) digital PWM and analog voltage dimming
 RCD-24/PL	0.3-1.0	4.5-36	2-35	SMD	31.0 x 11.4 x 6.6 mm (1.2" x 0.5" x 0.3")	EN/UL60950-1 EN61373 EN50121-3-2 EN55022	Buck topology low profile, class B filter built-in tape & reel packaging (-R)
 RCD-48 (/W)	0.35-1.2	9-60	2-56	DIP	32.6 x 16.7 x 11.1 mm (1.3" x 0.7" x 0.4") 32.6 x 16.0 x 11.2 mm (/M) (1.3" x 0.7" x 0.4")	EN/UL60950-1 EN61373 EN50121-3-2 EN55011	Buck topology wired version with Vref out available (/W) IP67 rated for wired version (/W) metal case (/M)
new  RCDE-48	0.35-1.05	6-60	3-52	DIP24	32.1 x 20.6 x 12.3 mm (1.2" x 0.8" x 0.5")	EN55015	Buck topology constant current output (350, 700, or 1050mA) digital PWM and analog voltage dimming high efficiency up to 97%
 RBD-12 (/W)	0.35-0.5	8-36	2-40	DIP	32.6 x 16.7 x 11.1 mm (1.3" x 0.7" x 0.4")	EN/IEC/UL60950-1	Buck/boost topology IP67 rated wired version with Vref out available (/W) digital PWM and analog voltage dimming

LED DRIVERS

ACCESSORIES

Series	Operating principle	Power (W)	Input Voltage (VAC)	Other features
 RELI-DA01/R	DALI-to-PWM/analog control signal interface	1.6	90-290	DALI IEC62386, PWM / 0-10V output compatible with all RECOM dimmable drivers spring terminals
 RELV4-16	DALI Bus power supply	3.2	90-264	Designed to power the DALI bus DALI compliant screw terminals

POWER CONTROL SYSTEMS – CUSTOM SOLUTIONS



RECOM's sister company Power Control Systems (PCS) specializes in custom power converter solutions and has over 40 years of experience with **high reliability/harsh environment applications.** Its design and manufacturing is in Europe with close local technical and sales support. Products developed include high power DC input and single/three-phase AC input converters up to 20kW, modular inverters up to 5kW with single/three-phase outputs, bi-directional power supplies up to 11kW, and battery chargers and balancers cascaded up to 20kW, suitable for a range of battery voltages up to 110VDC. All AC input products incorporate active power factor correction, and modular PFC 'front ends' are available up to 4kW with universal single and three-phase AC inputs.

Special products **for rugged vehicle solutions in the marine, avionics, and defence sectors** have also been developed up to 4kW rating, with single or multiple outputs, high levels of functionality, robustness, and environmental protection. PCS has extensive expertise in standards compliance in high reliability markets and can provide certification of products to functional, safety, and **EMC standards for the industrial, rail, transportation, medical, and defense markets.** Although most products are bespoke (customized), PCS uses a variety of proven platform designs as a basis for new projects, to minimize costs, risk, and turn-round time. Customers are invited to browse the featured products as examples of PCS capability and to contact the company with your particular requirements.

CUSTOM SOLUTIONS

UP TO 20kW, BATTERY CHARGERS | INVERTERS | PFC FRONT ENDS |

- high power solutions for DC or AC line with DC, 1AC or 3AC
- inverters up to 5kW
- warranty up to 3 years
- bidirectional power supplies up to 11kW with 3AC input and active PFC
- OCP, OTP, OVP and SCP
- wide operating temperature range
- special applications & rugged vehicle solutions up to 4kW
- battery charging & battery balancing up to 20kW

Series	Power (W)	Vin (VDC)	Vout (VDC)	Isolation	Case / Dimensions (LxWxH)	Comply with	Other features
 MD200	220	28VDC	5V / 2 x 12VDC	1500VDC	184.4 x 167.0 x 40.6 mm (7.2" x 6.5" x 1.6")	MIL-STD-704A MIL-STD-810F DEF-STAN 59-41 DO-160E/ED14E BS.2011, IPC-A-610D MIL-HDBK-217F, EN 62 IP 40 for ambient protection	Plug & play DC/DC converter for special applications, robust, high reliability, multiple output contact cooling
 ID250	240	24 - 48 - 72 - 110VDC	48VDC: 50-156VAC 24-72-110VDC: 200-240VAC	3500VAC	289.0 x 128.0 x 100.0 mm (11.4" x 5.0" x 3.9")	EN50155 EN50121-4, -3-2 EN50124-1, EN50125-3 EN61373 (1B) EN 62368-1 IS402, CE	Railway inverter power for passenger socket or for driver desks fully railway-approved reliable AC-power
 SD280	280	28VDC	Multiple output DC	N/A	250.0 x 130.0 x 100.0 mm (9.8" x 5.1" x 3.9")	N/A	High functionality converter, power supply with integrated functional interfaces compact design for critical ambient conditions excellent EMC behavior
 PFC800	800	230V1AC	365VDC	N/A	186.0 x 80.0 x 43.6 mm (7.3" x 3.1" x 1.7")	EN61000-6-2 EN61000-6-4 EN61000-3-2/A14 EN62368-1 CE	Modular power factor correction mobile or stationary use excellent performance compact design, high efficiency

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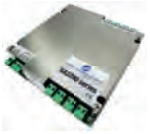
- battery charging & battery balancing up to 20kW

Series	Power (W)	Vin (VDC)	Vout (VDC)	Isolation	Case / Dimensions (LxWxH)	Comply with	Other features
 IPS1200	1200	48VDC±10% 24V or 48VDC	115V 1AC / 400Hz	> 200MΩ with 500	250.0 x 149.9 x 96.7 mm (9.8” x 5.9” x 3.8”)	MIL-STD-461F (Cat. Submarine) AECTP-400 (Edt.3) Method 403 AECTP-400 (Edt.3) Method 401 MIL-STD-810F 807.4, CE	Navi/marine inverter base plate cooling high efficiency, compact design robust, high reliability
 SD1200	900-1200	24-110VDC	24-110	500VDC	260.0 x 176.0 x 80.0 mm (10.2” x 6.9” x 3.1”)	CE, EN50124-1 EN50121-3-2 EN50155-2 EN45545-2 EN61373 (1B) EN62368-1	Plug & play converter for railway applications EN 50155 type tested high efficiency
 PFC1600	1600	230V 1AC	360	1750VDC	186.0 x 158.0 x 44.0 mm (7.3” x 6.2” x 1.7”)	EN61000-6-2 EN61000-6-4 EN61000-3-2/A14 EN62368-1 CE	Modular power factor correction mobile or stationary use excellent performance compact design, high efficiency
 MA2000	1400-2000	90-264VAC 3-120VDC	12 2-80	500VDC	318.0 x 212.0 x 165.0 mm (12.5” x 8.3” x 6.4”)	EN61000-6-1, -6-3 EN62368-1 EN61010 EN60068-2-6 EN61326 Class B CE	Battery conditioner for E-Mobility production automotion digital regulation concept high functionality
 SD2800	2500-3500	24 or 44V 3AC 18-110VDC	14,28 14, 24, 55	N/A	183.0 x 155.0 x 58.0 mm (7.2” x 6.1” x 2.3”)	Based of SEALING PROTECTION LEVEL IP54-on reques	Low voltage 3AC input optional for low voltage DC input very compact design with high power density high efficiency with 95% typ.
 PFC3200	3200	230V 1AC	365	1750VDC	199.0 x 186.0 x XX.0 mm (7.8” x 7.3” x xx.0”)	EN61000-6-2 EN61000-6-4 EN61000-3-2/A14 EN62368-1 CE	Modular power factor correction mobile or stationary use, excellent performance compact design, high efficiency easy to integrate
 SA3200	3200	400V 3AC or 700VDC	24-110	500VAC	410.0 x 235.0 x 85.0 mm (16.1” x 9.2” x 3.3”)	EN62368-1 EN61000-6-2, -6-4 EN50155, EN50121-3-2 EN61373 1B EN50124-1, EN50153 EN45545-2	Battery charger for mobile applications railway-approved according to EN 50155 robust and compact design interface for data communication
 PFC4000	4000	230V 1AC	360	2 kVAC	xxx.0 x xx.0 x xx.0 mm (16.1” x 9.2” x 3.3”)	EN61000-6-2 EN61000-6-4 EN62638-1 CE	Modular power factor correction mobile or stationary use excellent performance compact design, high efficiency

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- wide operating temperature range
- special applications & rugged vehicle solutions up to 4kW
- battery charging & battery balancing up to 20kW

Series	Power (W)	Vin (VDC)	Vout (VDC)	Isolation	Case / Dimensions (LxWxH)	Comply with	Other features
 SA4000	4000	115VAC 400V 3AC	24, 48 24, 48, 60	>200MW with 500VDC	617.0 x 483.0 x 132.0 mm (24.3” x 19.0” x 5.2”)	STANAG 1008 EN 62638-1 CE101 RE101 RE102 (Navy Fixed) CS101	Robust, compact design high efficiency industry AC power supply for 700VDC version see SD4000
 SD4000	4000	320/450 600VDC	24, 48	3 kVAC	483.5 x 370.0 x 132.0 mm (19.0” x 14.5” x 5.2”)	EN 62368-1 EN 61000-6-2 EN 61000-6-4 CE	Converter for high level DC-input traction battery 320VDC / 450VDC / 600VDC high efficiency robust, compact design
 SA5000	5000	360-440V 3AC	39.5-58	4 kVAC	526.0 x 483.0 x 88.0 mm (20.7” x 19.0” x 3.5”)	EN62368-1 EN50125-3 EN50129 EN50124-1/A1/A2 EN50121-3-2, -4 EN50155, EN45545-2	5kw battery charger for mobile use railway-approved concept 3Ph-AC input with active PFC output for 24V up to 110V battery
 SAB10000	10000	340-470V 1AC 520-700VDC	20 24	>200MOhm with 500VDC	670.0 x 443.0 x 128.0 mm (26.4” x 197.4” x 5.0”)	EN62368-1 EN61000-6-4, -3-2 EN61000-4-2, -4-3 EN61000-4-4, -4-5 EN61000-4-6, -4-8 EN61000-4-11	Bidirectional battery balancer for e-mobility production automation digital regulation concept high functionality
 MA11000	11000	180-480V 3AC	12	500VDC	503.0 x 430.0 x 141.0 mm (19.8” x 16.9” x 5.5”)	EN61000-6-3 EN61000-6-1 EN62368-1,EN 61010 EN60068-2-6 EN61326 class B CE	Battery conditioner for e-mobility production automotion digital regulation concept high functionality

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