

DATASHEET

Din Rail Power Supply

Best.-Nr. 2645199 (DPS-24120)
 Best.-Nr. 2645200 (DPH-12015)
 Best.-Nr. 2645201 (DPH-24015)
 Best.-Nr. 2645202 (DPH-12024)
 Best.-Nr. 2645203 (DPH-24030)
 Best.-Nr. 2645204 (DPH-12054)
 Best.-Nr. 2645205 (DPH-24060)
 Best.-Nr. 3427719 (TC-YSD60S-0504500)
 Best.-Nr. 3427721 (TC-YSD100S-1207100)
 Best.-Nr. 3427722 (TC-YSD100S-2403830)
 Best.-Nr. 3427723 (TC-YSD150S-12)
 Best.-Nr. 3427724 (TC-YSD150S-24)
 Best.-Nr. 3428340 (TC-YSD15S-0502400)
 Best.-Nr. 3428341 (TC-YSD15S-2400625)
 Best.-Nr. 3428342 (TC-YSD30S-0503000)



The symbol warns of hot surfaces that can result in severe burns when touched. Read the information carefully.



Protection class 2 (double or reinforced insulation, protective insulation).



This product is UK conformity assessed and meets applicable Great Britain directives.



Safety isolating transformer



Power supply unit, switch mode. Switching power supply unit is installed in the product.

LPS

Limited power source. Power adapter is designed to provide a maximum output voltage, output current, and output power.

IP20

Ingress protection rating. Protected against solid objects up to 12 mm. Not protected against water.

Overview

Rated input 100-240 V/AC, 50/60 Hz

Item No.:	Rated output
2645199	24 V/DC 5.0 A 120 W
2645200	12 V/DC 1.25 A 15 W
2645201	24 V/DC 0.625 A 15 W
2645202	12 V/DC 2 A 24 W
2645203	24 V/DC 1.5 A 36 W
2645204	12 V/DC 4.5 A 54 W
2645205	24 V/DC 2.5 A 60 W
3427719	5 V/DC 4.5 A 22.5 W
3427721	12 V/DC 7.1 A 85.2 W
3427722	24 V/DC 3.83 A 92 W
3427723	12 V/DC 11.3 A 135.6 W
3427724	24 V/DC 6.25 A 150 W
3428340	5 V/DC 2.4 A 12 W
3428341	24 V/DC 0.625 A 15 W
3428342	5 V/DC 3 A 15 W

Ingress protection IP20

Protection class II

Operating conditions -20 to +70 °C, 20-95 % RH (non-condensing)

Storage conditions -40 to +85 °C 10-95 % RH (non-condensing)



TECHNICAL DATA

BN	2645199	2645200	2645201
Customer #	DPS-24120	DPH-12015	DPH-24015
Product name	Din Rail Power Supply 24 V/DC 5A 120W	Din Rail Power Supply 12 V/DC 1.25A 15W	Din Rail Power Supply 24V/DC 0.625A 15W
Rated input	100-240 V/AC, 50/60 Hz	100-240 V/AC, 50/60 Hz	100-240 V/AC, 50/60 Hz
Input voltage range	90-264 V/AC or 127-370 V/DC	90-264 V/AC or 127-370 V/DC	90-264 V/AC or 127-370 V/DC
Frequency range	47-63 Hz	47-63 Hz	47-63 Hz
Efficiency (Typ.)	91 %	85%	86%
AC current (Typ.)	1.4 A/115 V/AC 0.7 A/230 V/AC	0.5 A/115 V/AC 0.25 A/230 V/AC	0.5 A/115 V/AC 0.25 A/230 V/AC
Inrush current (Typ.)	35 A/115 V/AC 70 A/230 V/AC	25 A/115 V/AC 45 A/230 V/AC	25 A/115 V/AC 45 A/230 V/AC
Leakage current	<1 mA/240 V/AC	0.707 mA/264 V/AC	0.707 mA/264 V/AC
Power Factor Correction (PFC)	Built-in, active	NA	NA
Ripple & Noise (max.)	100 mVp-p	120 mVp-p	150 mVp-p
Voltage tolerance	±2.0 %	±2.0 %	±2.0 %
Line regulation	±0.5 %	±1.0 %	±1.0 %
Load regulation	±1.0 %	±1.0 %	±1.0 %
Setup, rise time	1500 ms, 60 ms/230 V/AC at full load 3000 ms, 60 ms/115 V/AC at full load	2000 ms, 80 ms/230 V/AC at full load 2000 ms, 80 ms/115 V/AC at full load	2000 ms, 80 ms/230 V/AC at full load 2000 ms, 80 ms/115 V/AC at full load
Hold up time (Typ.)	20 ms/230 V/AC at full load 15 ms/115 V/AC at full load	30ms/230 V/AC at full load 12 ms/115 V/AC at full load	30 ms/230 V/AC at full load 12 ms/115 V/AC at full load
Voltage adjustment range	24 - 28 V/DC	10.8 -13.8 V/DC	21.6 - 29 V/DC
Output voltage (min.)	24 V/DC	12 V/DC	24 V/DC
Output voltage (max)	28 V/DC	13.8 V/DC	29 V/DC
Output current (max)	5 A	1.25 A	0.625 A
Rated Power	120 W	15 W	15 W
Output power characteristic	High peak power 150 W (3 secs)	N/A	N/A
DC power good signal	Built-in DC okay relay contact	N/A	N/A
Withstand voltage	I/P-O/P: 3 kV/AC I/P-FG: 2 kV/AC O/P- FG: 0.5 kV/AC	I/P-O/P: 3 kV/AC I/P-FG: 2 kV/AC O/P- FG: 0.5 kV/AC	I/P-O/P: 3 kV/AC I/P-FG: 2 kV/AC O/P- FG: 0.5 kV/AC
Isolation resistance	I/P-O/P, I/P-FG, O/P-FG: > 100M Ohms / 500V/DC / 25 °C / 70% RH	I/P-O/P: > 100M Ohms / 500V/DC / 25 °C / 70% RH	I/P-O/P: > 100M Ohms / 500V/DC / 25 °C / 70% RH
DIN rail compatability	TS-35/7.5 or TS-35/15 EN/IEC 60715 (DIN rail)	TS-35/7.5 or TS-35/15 EN/IEC 60715 (DIN rail)	TS-35/7.5 or TS-35/15 EN/IEC 60715 (DIN rail)
Output connection type	Screw DIN terminal	Screw DIN terminal	Screw DIN terminal
Input / output connector pin count	Input: 3 poles Output: 4 poles	Input: 2 poles Output: 2 poles	Input: 2 poles Output: 2 poles
Outputs	1	1	1
Operating orientation	Vertical (input terminals down)	Vertical (input terminals down)	Vertical (input terminals down)
Protection mechanisms	Short circuit, over load, over voltage, over temperature	Short circuit, overload, over voltage	Short circuit, overload, over voltage
Overload protection behaviour	Trip Point: Output shutdown on overload, Automatic after fault condition is removed	Trip Point: hiccup mode Recovery: Automatic after fault condition is removed	Trip Point: hiccup mode Recovery: Automatic after fault condition is removed
Overvoltage protection	<u>Trip point: 29-33 V</u> Action: Output shutdown Recovery: After discharge, restart the power supply to recover	<u>Trip point: 14.2-16.2 V</u> Action: Output shutdown Recovery: After discharge, restart the power supply to recover	<u>Trip point: 30-36 V</u> Action: Output shutdown Recovery: After discharge, restart the power supply to recover
Over temperature protection	Action: Output shutdown Recovery: Re-power the unit after sufficient cooling	N/A	N/A
Over voltage category	N/A	II	II
Cooling method	Convection	Convection	Convection
Fuse	T3.15A/L250V	T2A/L250V	T2A/L250V
Max. connected products per circuit breaker	Type C16: 24 pcs Type D16: 48 pcs	Type C16: 98 pcs Type D16: 196 pcs	Type C16: 98 pcs Type D16: 196 pcs
Terminal screw torque	Inputs: 0.5 N·m Outputs: 0.5 N·m	Inputs: 0.4 N·m Outputs: 0.4 N·m	Inputs: 0.4 N·m Outputs: 0.4 N·m
Ingress protection	N/A	IP20	IP20
Operating conditions	-25 to +70 °C	-20 to +70 °C	-20 to +70 °C
Operating humidity	20-95 % RH (non-condensing)	20-90 % RH (non-condensing)	20-90 % RH (non-condensing)
Storage conditions	-40 to +85 °C	-40 to +85 °C	-40 to +85 °C
Storage humidity	10-95 % RH (non-condensing)	10-95 % RH (non-condensing)	10-95 % RH (non-condensing)
Temperature derating	De-rating from 50 - 70 °C	De-rating from 50 - 70 °C	De-rating from 50 - 70 °C
Mean time between failures (MTBF)	280K hrs min. MIL-HDBK-217F(25°C)	1000K hrs min. MIL-HDBK-217F(25°C)	1000K hrs min. MIL-HDBK-217F(25°C)
Weight	670 g	78 g	78 g
Dimensions (W x H x D)	40 x 125 x 114 mm	18 x 90 x 58 mm	18 x 90 x 58 mm



TECHNICAL DATA

BN	2645199	2645200	2645201
Dimension_drawing			
Dimension_data	A 125 ±1 mm B 40 ±1 mm C 30 mm D 114 ±1mm E 108 ±1 mm	A 58.5 mm B 35.5 mm C 8.7 mm D 63.8 mm E 45.4 mm F 90.3 mm G 18 mm	A 58.5 mm B 35.5 mm C 8.7 mm D 63.8 mm E 45.4 mm F 90.3 mm G 18 mm

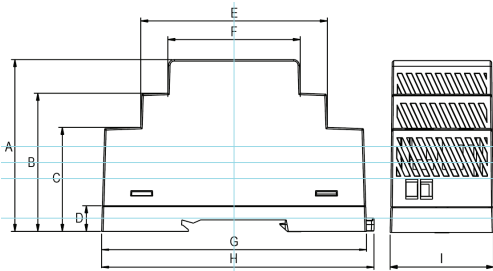
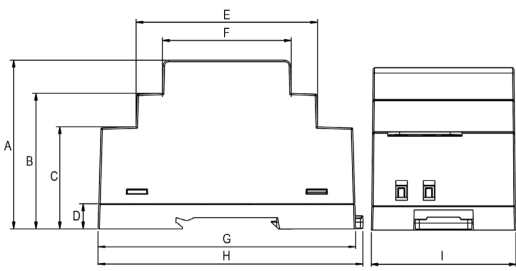


TECHNICAL DATA

BN	2645202	2645203	2645204	2645205
Customer #	DPH-12024	DPH-24030	DPH-12054	DPH-24060
Product name	Din Rail Power Supply 12V/DC 2A 24W	Din Rail Power Supply 24V/DC 1.5A 36W	Din Rail Power Supply 12V/DC 4.5A 54W	Din Rail Power Supply 24V/DC 2.5A 60W
Rated input	100-240 V/AC, 50/60Hz	100-240 V/AC, 50/60Hz	100-240 V/AC, 50/60Hz	100-240 V/AC, 50/60Hz
Input voltage range	90-264 V/AC or 127-370 V/DC	90-264 V/AC or 127-370 V/DC	90-264 V/AC or 127-370 V/DC	90-264 V/AC or 127-370 V/DC
Frequency range	47-63 Hz	47-63 Hz	47-63 Hz	47-63 Hz
Efficiency (Typ.)	88%	89%	88%	90%
AC current (Typ.)	0.88 A/115 V/AC 0.48 A/230 V/AC	0.88 A/115 V/AC 0.48 A/230 V/AC	1.2 A/115 V/AC 0.8 A/230 V/AC	1.2 A/115 V/AC 0.8 A/230 V/AC
Inrush current (Typ.)	25 A/115 V/AC 45 A/230 V/AC	25 A/115 V/AC 45 A/230 V/AC	30 A/115 V/AC 60 A/230 V/AC	30 A/115 V/AC 60 A/230 V/AC
Leakage current	0.707mA/264V/AC	0.707mA/264V/AC	0.707mA/264V/AC	0.707mA/264V/AC
Power Factor Correction (PFC)	NA	NA	NA	NA
Ripple & Noise (max.)	120 mVp-p	150 mVp-p	120 mVp-p	150 mVp-p
Voltage tolerance	±2.0 %	±2.0 %	±2.0 %	±2.0 %
Line regulation	±1.0 %	±1.0 %	±1.0 %	±1.0 %
Load regulation	±1.0 %	±1.0 %	±1.0 %	±1.0 %
Setup, rise time	500 ms, 50 ms/230 V/AC at full load 500 ms, 50 ms/115 V/AC at full load	500 ms, 50 ms/230 V/AC at full load 500 ms, 50 ms/115 V/AC at full load	500 ms, 50 ms/230 V/AC at full load 500 ms, 50 ms/115 V/AC at full load	500 ms, 50 ms/230 V/AC at full load 500 ms, 50 ms/115 V/AC at full load
Hold up time (Typ.)	30 ms/230 V/AC at full load 12 ms/115 V/AC at full load	30 ms/230 V/AC at full load 12 ms/115 V/AC at full load	30 ms/230 V/AC at full load 12 ms/115 V/AC at full load	30 ms/230 V/AC at full load 12 ms/115 V/AC at full load
Voltage adjustment range	10.8 -13.8 V/DC	21.6 - 29 V/DC	10.8 -13.8 V/DC	21.6 - 29 V/DC
Output voltage (min.)	12 V/DC	24 V/DC	12 V/DC	24 V/DC
Output voltage (max)	13.8 V/DC	29 V/DC	13.8 V/DC	29 V/DC
Output current (max)	2 A	1.5 A	4.5 A	2.5 A
Rated Power	24 W	36 W	54 W	60 W
Output power characteristic	N/A	N/A	N/A	N/A
DC power good signal	N/A	N/A	N/A	N/A
Withstand voltage	I/P-O/P: 3 kV/AC I/P-FG: 2 kV/AC O/P- FG: 0.5 kV/AC	I/P-O/P: 3 kV/AC I/P-FG: 2 kV/AC O/P- FG: 0.5 kV/AC	I/P-O/P: 3 kV/AC I/P-FG: 2 kV/AC O/P- FG: 0.5 kV/AC	I/P-O/P: 3 kV/AC I/P-FG: 2 kV/AC O/P- FG: 0.5 kV/AC
Isolation resistance	I/P-O/P: > 100M Ohms / 500V/DC / 25 °C / 70% RH	I/P-O/P: > 100M Ohms / 500V/DC / 25 °C / 70% RH	I/P-O/P: > 100M Ohms / 500V/DC / 25 °C / 70% RH	I/P-O/P: > 100M Ohms / 500V/DC / 25 °C / 70% RH
DIN rail compatability	TS-35/7.5 or TS-35/15 EN/IEC 60715 (DIN rail)	TS-35/7.5 or TS-35/15 EN/IEC 60715 (DIN rail)	TS-35/7.5 or TS-35/15 EN/IEC 60715 (DIN rail)	TS-35/7.5 or TS-35/15 EN/IEC 60715 (DIN rail)
Output connection type	Screw DIN terminal	Screw DIN terminal	Screw DIN terminal	Screw DIN terminal
Input / output connector pin count	Input: 2 poles Output: 2 poles	Input: 2 poles Output: 2 poles	Input: 2 poles Output: 4 poles	Input: 2 poles Output: 4 poles
Outputs	1	1	1	1
Operating orientation	Vertical (input terminals down)	Vertical (input terminals down)	Vertical (input terminals down)	Vertical (input terminals down)
Protection mechanisms	Short circuit, overload, over voltage	Short circuit, overload, over voltage	Short circuit, overload, over voltage	Short circuit, overload, over voltage
Overload protection behaviour	Trip Point: hiccup mode Recovery: Automatic after fault condition is removed	Trip Point: hiccup mode Recovery: Automatic after fault condition is removed	Trip Point: hiccup mode Recovery: Automatic after fault condition is removed	Trip Point: hiccup mode Recovery: Automatic after fault condition is removed
Overvoltage protection	<u>Trip point: 15-18 V</u> Action: Output shutdown Recovery:After discharge, restart the power supply to recover	<u>Trip point: 30-36 V</u> Action: Output shutdown Recovery: After discharge, restart the power supply to recover	<u>Trip point: 14.2-16.2 V</u> Action: Output shutdown Recovery: After discharge, restart the power supply to recover	<u>Trip point: 30-36 V</u> Action: Output shutdown Recovery: After discharge, restart the power supply to recover
Over temperature protection	N/A	N/A	N/A	N/A
Over voltage category	II	II	II	II
Cooling method	Convection	Convection	Convection	Convection
Fuse	T3.15A/L250V	T3.15A/L250V	T3.15A/L250V	T3.15A/L250V
Max. connected products per circuit breaker	Type C16: 61 pcs Type D16: 122 pcs	Type C16: 41 pcs Type D16: 82 pcs	Type C16: 27 pcs Type D16: 54 pcs	Type C16: 26 pcs Type D16: 52 pcs
Terminal screw torque	Inputs: 0.4 N·m Outputs: 0.4 N·m	Inputs: 0.4 N·m Outputs: 0.4 N·m	Inputs: 0.4 N·m Outputs: 0.5 N·m	Inputs: 0.4 N·m Outputs: 0.5 N·m
Ingress protection	IP20	IP20	IP20	IP20
Operating conditions	-20 to +70 °C	-20 to +70 °C	-20 to +70 °C	-20 to +70 °C
Operating humidity	20-90 % RH (non-condensing)	20-90 % RH (non-condensing)	20-90 % RH (non-condensing)	20-90 % RH (non-condensing)
Storage conditions	-40 to +85 °C	-40 to +85 °C	-40 to +85 °C	-40 to +85 °C
Storage humidity	10-95 % RH (non-condensing)	10-95 % RH (non-condensing)	10-95 % RH (non-condensing)	10-95 % RH (non-condensing)
Temperature derating	De-rating from 50 - 70 °C	De-rating from 50 - 70 °C	De-rating from 45 - 70 °C	De-rating from 45 - 70 °C
Mean time between failures (MTBF)	900K hrs min. MIL-HDBK-217F(25°C)	900K hrs min. MIL-HDBK-217F(25°C)	900K hrs min. MIL-HDBK-217F(25°C)	900K hrs min. MIL-HDBK-217F(25°C)
Weight	120 g	120 g	190 g	190 g
Dimensions (W x H x D)	35 x 90 x 58 mm	35 x 90 x 58 mm	52 x 90 x 58 mm	52 x 90 x 58 mm



TECHNICAL DATA

BN	2645202	2645203	2645204	2645205
Dimension_drawing				
Dimension_data	A 58.4 mm B 47 mm C 35.4 mm D 8.7 mm E 63.4 mm F 45 mm G 90 mm H 92.6 mm I 35.2 mm	A 58.4 mm B 47 mm C 35.4 mm D 8.7 mm E 63.4 mm F 45 mm G 90 mm H 92.6 mm I 35.2 mm	A 58.4 mm B 47 mm C 35.4 mm D 8.7 mm E 63.4 mm F 45 mm G 90 mm H 92.6 mm I 52.5 mm	A 58.4 mm B 47 mm C 35.4 mm D 8.7 mm E 63.4 mm F 45 mm G 90 mm H 92.6 mm I 52.5 mm
Image				

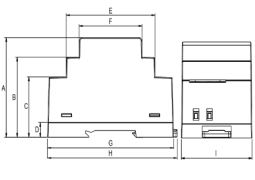
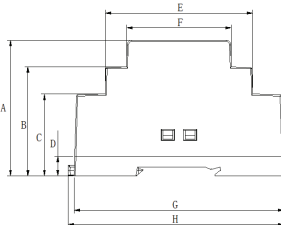
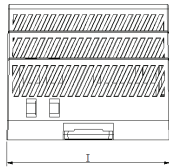
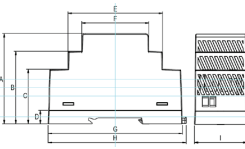


TECHNICAL DATA

BN	3427719	3427721	3427722	3428342
Customer #	TC-YSD60S-0504500	TC-YSD100S-1207100	TC-YSD100S-2403830	TC-YSD30S-0503000
Product name	Din Rail Power Supply 5V/DC 4.5A 22.5W	Din Rail Power Supply 12V/DC 7.1A 85.2W	Din Rail Power Supply 24V/DC 3.83A 92W	Din Rail Power Supply 5V/DC 3A 15W
Rated input	100-240 V/AC, 50/60 Hz	100-240 V/AC, 50/60 Hz	100-240 V/AC, 50/60 Hz	100-240 V/AC, 50/60 Hz
Input voltage range	90-264 V/AC or 127-370 V/DC	90-264 V/AC or 127-370 V/DC	90-264 V/AC or 127-370 V/DC	90-264 V/AC or 127-370 V/DC
Frequency range	47-63 Hz	47-63 Hz	47-63 Hz	47-63 Hz
Efficiency (Typ.)	85%	88%	90%	82%
AC current (Typ.)	1.2 A/115 V/AC 0.8 A/230 V/AC	3A/115 V/AC 1.6 A/230 V/AC	3A/115 V/AC 1.6 A/230 V/AC	0.88 A/115 V/AC 0.48 A/230 V/AC
Inrush current (Typ.)	30 A/115 V/AC 60 A/230 V/AC	35 A/115 V/AC 70 A/230V/AC	35 A/115 V/AC 70 A/230 V/AC	25 A/115 V/AC 45 A/230 V/AC
Leakage current	0.707 mA/264 V/AC	0.707 mA/264 V/AC	0.707 mA/264 V/AC	0.707 mA/264 V/AC
Power Factor Correction (PFC)	NA	NA	NA	NA
Ripple & Noise (max.)	80 mVp-p	120 mVp-p	150 mVp-p	80 mVp-p
Voltage tolerance	±2.0 %	±2.0 %	±2.0 %	±2.0 %
Line regulation	±1.0 %	±1.0 %	±1.0 %	±1.0 %
Load regulation	±1.0 %	±1.0 %	±1.0 %	±1.0 %
Setup, rise time	500 ms, 50 ms/230 V/AC at full load 500 ms, 50 ms/115 V/AC at full load	500 ms, 50 ms/230 V/AC at full load 500 ms, 50 ms/115 V/AC at full load	500 ms, 50 ms/230 V/AC at full load 500 ms, 50 ms/115 V/AC at full load	500 ms, 50 ms/230 V/AC at full load 500 ms, 50 ms/115 V/AC at full load
Hold up time (Typ.)	30 ms/230 V/AC at full load 12 ms/115 V/AC at full load	30 ms/230 V/AC at full load 12 ms/115 V/AC at full load	30 ms/230 V/AC at full load 12 ms/115 V/AC at full load	30 ms/230 V/AC at full load 12 ms/115 V/AC at full load
Voltage adjustment range	5.0 - 5.5 V/DC	12-13V/DC	24-25.5 V/DC	4.5 - 5.5 V/DC
Output voltage (min.)	5 V/DC	12 V/DC	24 V/DC	5 V/DC
Output voltage (max)	5.5 V/DC	13 V/DC	25.5 V/DC	5.5 V/DC
Output current (max)	4.5 A	7.1 A	3.83 A	3 A
Rated Power	22.5 W	85.2 W	92 W	15 W
Output power characteristic	N/A	N/A	N/A	N/A
DC power good signal	N/A	N/A	N/A	N/A
Withstand voltage	I/P-O/P: 3 kV/AC I/P-FG: 2 kV/AC O/P- FG: 0.5 kV/AC	I/P-O/P: 3 kV/AC I/P-FG: 2 kV/AC O/P- FG: 0.5 kV/AC	I/P-O/P: 3 kV/AC I/P-FG: 2 kV/AC O/P- FG: 0.5 kV/AC	I/P-O/P: 3 kV/AC I/P-FG: 2 kV/AC O/P- FG: 0.5 kV/AC
Isolation resistance	I/P-O/P: > 100M Ohms / 500V/DC / 25 °C / 70% RH	I/P-O/P: > 100M Ohms / 500V/DC / 25 °C / 70% RH	I/P-O/P: > 100M Ohms / 500V/DC / 25 °C / 70% RH	I/P-O/P: > 100M Ohms / 500V/DC / 25 °C / 70% RH
DIN rail compatability	TS-35/7.5 or TS-35/15 EN/IEC 60715 (DIN rail)	TS-35/7.5 or TS-35/15 EN/IEC 60715 (DIN rail)	TS-35/7.5 or TS-35/15 EN/IEC 60715 (DIN rail)	TS-35/7.5 or TS-35/15 EN/IEC 60715 (DIN rail)
Output connection type	Screw DIN terminal	Screw DIN terminal	Screw DIN terminal	Screw DIN terminal
Input / output connector pin count	Input: 2 poles Output: 4 poles	Input: 2 poles Output: 4 poles	Input: 2 poles Output: 4 poles	Input: 2 poles Output: 2 poles
Outputs	1	1	1	1
Operating orientation	Vertical (input terminals down)	Vertical (input terminals down)	Vertical (input terminals down)	Vertical (input terminals down)
Protection mechanisms	Short circuit, overload, over voltage	Short circuit, over load, over voltage, over temperature	Short circuit, over load, over voltage, over temperature	Short circuit, overload, over voltage
Overload protection behaviour	Trip Point: hiccup mode Recovery: Automatic after fault condition is removed	Trip Point: hiccup mode Recovery: Automatic after fault condition is removed	Trip Point: hiccup mode Recovery: Automatic after fault condition is removed	Trip Point: hiccup mode Recovery: Automatic after fault condition is removed
Overvoltage protection	Trip point: 5.75-6.75 V Action: Output shutdown Recovery: After discharge, restart the power supply to recover	Trip point: 14.2-16.2 V Action: Output shutdown Recovery: After discharge, restart the power supply to recover	Trip point: 30-36 V Action: Output shutdown Recovery: After discharge, restart the power supply to recover	Trip point: 5.75-7.5 V Action: Output shutdown Recovery: After discharge, restart the power supply to recover
Over temperature protection	N/A	N/A	N/A	N/A
Over voltage category	II	II	II	II
Cooling method	Convection	Convection	Convection	Convection
Fuse	T3.15A/L250V	T3.15A/L250V	T3.15A/L250V	T3.15A/L250V
Max. connected products per circuit breaker	Type C16: 66 pcs Type D16: 132 pcs	Type C16: 16 pcs Type D16: 32 pcs	Type C16: 16 pcs Type D16: 32 pcs	Type C16: 98 pcs Type D16: 196 pcs
Terminal screw torque	Inputs: 0.4 N·m Outputs: 0.5 N·m	Inputs: 0.4 N·m Outputs: 0.5 N·m	Inputs: 0.4 N·m Outputs: 0.5 N·m	Inputs: 0.4 N·m Outputs: 0.4 N·m
Ingress protection	IP20	IP20	IP20	IP20
Operating conditions	-20 to +70 °C	-20 to +70 °C	-20 to +70 °C	-20 to +70 °C
Operating humidity	20-90 % RH (non-condensing)	20-90 % RH (non-condensing)	20-90 % RH (non-condensing)	20-90 % RH (non-condensing)
Storage conditions	-40 to +85 °C	-40 to +85 °C	-40 to +85 °C	-40 to +85 °C
Storage humidity	10-95 % RH (non-condensing)	10-95 % RH (non-condensing)	10-95 % RH (non-condensing)	10-95 % RH (non-condensing)
Temperature derating	De-rating from 45 - 70 °C	De-rating from 45 - 70 °C	De-rating from 45 - 70 °C	De-rating from 50 - 70 °C
Mean time between failures (MTBF)	900K hrs min. MIL-HDBK-217F(25°C)	800K hrs min. MIL-HDBK-217F(25°C)	800K hrs min. MIL-HDBK-217F(25°C)	900K hrs min. MIL-HDBK-217F(25°C)
Weight	190 g	270 g	270 g	120 g



TECHNICAL DATA

BN	3427719	3427721	3427722	3428342
Dimensions (W x H x D)	52 x 90 x 58 mm	70.2 x 90 x 58.4 mm	70.2 x 90 x 58.4 mm	35 x 90 x 58 mm
Dimension_drawing				
Dimension_data	A 58.4 mm B 47 mm C 35.4 mm D 8.7 mm E 63.4 mm F 45 mm G 90 mm H 92.6 mm I 52.5 mm	A 58.1 mm B 46.7 mm C 35.1 mm D 8.4 mm E 63.4 mm F 45 mm G 90 mm H 92.6 mm I 70.2 mm	A 58.1 mm B 46.7 mm C 35.1 mm D 8.4 mm E 63.4 mm F 45 mm G 90 mm H 92.6 mm I 70.2 mm	A 58.4 mm B 47 mm C 35.4 mm D 8.7 mm E 63.4 mm F 45 mm G 90 mm H 92.6 mm I 35.2 mm
Image				

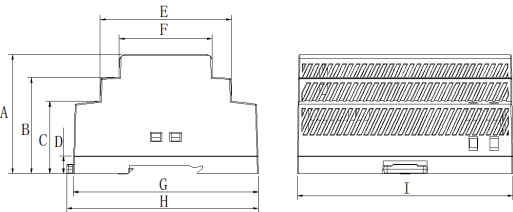
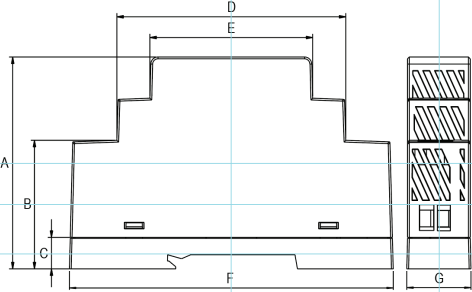


TECHNICAL DATA

BN	3427723	3427724	3428340	3428341
Customer #	TC-YSD150S-12	TC-YSD150S-24	TC-YSD15S-0502400	TC-YSD15S-2400625
Product name	Din Rail Power Supply 12V/DC 11.3A 135.6W	Din Rail Power Supply 24V/DC 6.25A 150W	Din Rail Power Supply 5V/DC 2.4A 12W	Din Rail Power Supply 24V/DC 0.625A 15W
Rated input	100-240 V/AC, 50/60 Hz	100-240 V/AC, 50/60 Hz	100-240 V/AC, 50/60 Hz	100-240 V/AC, 50/60 Hz
Input voltage range	90-264 V/AC or 127-370 V/DC	90-264 V/AC or 127-370 V/DC	90-264 V/AC or 127-370 V/DC	90-264 V/AC or 127-370 V/DC
Frequency range	47-63 Hz	47-63 Hz	47-63 Hz	47-63 Hz
Efficiency (Typ.)	89%	90.5%	80%	86%
AC current (Typ.)	3A/115 V/AC 1.6 A/230 V/AC	3A/115 V/AC 1.6 A/230 V/AC	0.5 A/115 V/AC 0.25 A/230 V/AC	0.5 A/115 V/AC 0.25 A/230 V/AC
Inrush current (Typ.)	35 A/115 V/AC 70 A/230 V/AC	35 A/115 V/AC 70 A/230 V/AC	25 A/115 V/AC 45 A/230 V/AC	25 A/115 V/AC 45 A/230V/AC
Leakage current	0.707 mA/264 V/AC	0.707 mA/264 V/AC	0.707 mA/264 V/AC	0.707 mA/264 V/AC
Power Factor Correction (PFC)	NA	NA	NA	NA
Ripple & Noise (max.)	100 mVp-p	150 mVp-p	80 mVp-p	150 mVp-p
Voltage tolerance	±2.0 %	±2.0 %	±2.0 %	±2.0 %
Line regulation	±1.0 %	±1.0 %	±1.0 %	±1.0 %
Load regulation	±1.0 %	±1.0 %	±1.0 %	±1.0 %
Setup, rise time	500 ms, 60 ms/230 V/AC at full load 500 ms, 60 ms/115 V/AC at full load	500 ms, 60 ms/230 V/AC at full load 500 ms, 60 ms/116 V/AC at full load	2000 ms, 80 ms/230 V/AC at full load 2000 ms, 80 ms/115 V/AC at full load	2000 ms, 80 ms/230 V/AC at full load 2000 ms, 80 ms/115 V/AC at full load
Hold up time (Typ.)	30 ms/230 V/AC at full load 12 ms/115 V/AC at full load	30 ms/230 V/AC at full load 12 ms/115 V/AC at full load	30 ms/230 V/AC at full load 12 ms/115 V/AC at full load	30 ms/230 V/AC at full load 12 ms/115 V/AC at full load
Voltage adjustment range	10.8 - 13.8 V/DC	21.6 - 29 V/DC	4.5 - 5.5 V/DC	21.6 - 29 V/DC
Output voltage (min.)	12 V/DC	24 V/DC	5 V/DC	24 V/DC
Output voltage (max)	13.8 V/DC	29 V/DC	5.5 V/DC	29 V/DC
Output current (max)	11.3 A	6.25 A	2.4 A	0.625 A
Rated Power	135.6 W	150 W	12 W	15 W
Output power characteristic	N/A	N/A	N/A	N/A
DC power good signal	N/A	N/A	N/A	N/A
Withstand voltage	I/P-O/P: 3 kV/AC I/P-FG: 2 kV/AC O/P- FG: 0.5 kV/AC	I/P-O/P: 3 kV/AC I/P-FG: 2 kV/AC O/P- FG: 0.5 kV/AC	I/P-O/P: 3 kV/AC I/P-FG: 2 kV/AC O/P- FG: 0.5 kV/AC	I/P-O/P: 3 kV/AC I/P-FG: 2 kV/AC O/P- FG: 0.5 kV/AC
Isolation resistance	I/P-O/P: > 100M Ohms / 500V/DC / 25 °C / 70% RH	I/P-O/P: > 100M Ohms / 500V/DC / 25 °C / 70% RH	I/P-O/P: > 100M Ohms / 500V/DC / 25 °C / 70% RH	I/P-O/P: > 100M Ohms / 500V/DC / 25 °C / 70% RH
DIN rail compatability	TS-35/7.5 or TS-35/15 EN/IEC 60715 (DIN rail)	TS-35/7.5 or TS-35/15 EN/IEC 60715 (DIN rail)	TS-35/7.5 or TS-35/15 EN/IEC 60715 (DIN rail)	TS-35/7.5 or TS-35/15 EN/IEC 60715 (DIN rail)
Output connection type	Screw DIN terminal	Screw DIN terminal	Screw DIN terminal	Screw DIN terminal
Input / output connector pin count	Input: 2 poles Output: 4 poles	Input: 2 poles Output: 4 poles	Input: 2 poles Output: 2 poles	Input: 2 poles Output: 2 poles
Outputs	1	1	1	1
Operating orientation	Vertical (input terminals down)	Vertical (input terminals down)	Vertical (input terminals down)	Vertical (input terminals down)
Protection mechanisms	Short circuit, over load, over voltage, over temperature	Short circuit, over load, over voltage, over temperature	Short circuit, overload, over voltage	Short circuit, overload, over voltage
Overload protection behaviour	Trip Point: hiccup mode Recovery: Automatic after fault condition is removed	Trip Point: hiccup mode Recovery: Automatic after fault condition is removed	Trip Point: hiccup mode Recovery: Automatic after fault condition is removed	Trip Point: hiccup mode Recovery: Automatic after fault condition is removed
Overvoltage protection	<u>Trip point: 14.2 - 16.2 V</u> Action: Output shutdown Recovery: After discharge, restart the power supply to recover	<u>Trip point: 30 - 36 V</u> Action: Output shutdown Recovery: After discharge, restart the power supply to recover	<u>Trip point: 5.75 - 6.75 V</u> Action: Output shutdown Recovery: After discharge, restart the power supply to recover	<u>Trip point: 30 - 36 V</u> Action: Output shutdown Recovery: After discharge, restart the power supply to recover
Over temperature protection	N/A	N/A	N/A	N/A
Over voltage category	II	II	II	II
Cooling method	Convection	Convection	Convection	Convection
Fuse	T5A/L250V	T5A/L250V	T2A/L250V	T2A/L250V
Max. connected products per circuit breaker	Type C16: 11 pcs Type D16: 22 pcs	Type C16: 11 pcs Type D16: 22 pcs	Type C16: 114 pcs Type D16: 228 pcs	Type C16: 98 pcs Type D16: 196 pcs
Terminal screw torque	Inputs: 0.4 N·m Outputs: 0.5 N·m	Inputs: 0.4 N·m Outputs: 0.5 N·m	Inputs: 0.4 N·m Outputs: 0.4 N·m	Inputs: 0.4 N·m Outputs: 0.4 N·m
Ingress protection	IP20	IP20	IP20	IP20
Operating conditions	-20 to +70 °C	-20 to +70 °C	-20 to +70 °C	-20 to +70 °C
Operating humidity	20-90 % RH (non-condensing)	20-90 % RH (non-condensing)	20-90 % RH (non-condensing)	20-90 % RH (non-condensing)
Storage conditions	-40 to +85 °C	-40 to +85 °C	-40 to +85 °C	-40 to +85 °C
Storage humidity	10-95 % RH (non-condensing)	10-95 % RH (non-condensing)	10-95 % RH (non-condensing)	10-95 % RH (non-condensing)
Temperature derating	De-rating from 45 - 70°C	De-rating from 45 - 70 °C	De-rating from 50 - 70 °C	De-rating from 50 - 70 °C
Mean time between failures (MTBF)	500K hrs min. MIL-HDBK-217F(25°C)	500K hrs min. MIL-HDBK-217F(25°C)	1000K hrs min. MIL-HDBK-217F(25°C)	1000K hrs min. MIL-HDBK-217F(25°C)
Weight	356 g	353 g	78 g	78 g



TECHNICAL DATA

BN	3427723	3427724	3428340	3428341
Dimensions (W x H x D)	105x 90 x 58.4mm	105x 90 x 58.4mm	18 x 90 x 58 mm	18 x 90 x 58 mm
Dimension_drawing				
Dimension_data	A 58.2 mm B 47 mm C 35.4 mm D 8.7 mm E 63.8 mm F 45.3 mm G 90 mm H 92.6 mm I 105 mm	A 58.2 mm B 47 mm C 35.4 mm D 8.7 mm E 63.8 mm F 45.3 mm G 90 mm H 92.6 mm I 105 mm	A 58.5 mm B 35.5 mm C 8.7 mm D 63.8 mm E 45.4 mm F 90.3 mm G 18 mm	A 58.5 mm B 35.5 mm C 8.7 mm D 63.8 mm E 45.4 mm F 90.3 mm G 18 mm
Image				