

Pro-H CPT SNT 600W 48V 12,5A

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The powerful new line of PRO-H power supplies – with ATEX and Class I Div. 2 approvals – is designed for use in Ex zones and the high-performance sector. High power reserves, a wide operating temperature range of -25 °C to +70 °C and high MTBF values (mean time between failures) of up to 1.8 million hours: these features ensure that the power supplies are suitable for all applications that require superior reliability (for example in the processing industry, power engineering, and in demanding machine construction applications). Solutions are available to fit control voltages from 12V/24V to 48V. The product can be wired in parallel in order to increase the power capacity. A two-channel set-up with 100% load sharing can also be implemented with an optional redundancy module. This serves to increase your operational reliability. The Remote On/Off function allow you to switch the device on and off remotely. The output status can be signalled over a voltage-free relay or transistor output. The devices are equipped with pluggable connection terminals which allow them to be easily tested. Product solutions can be custom-fit for use in different types of one-phase, and three-phase systems.

General ordering data

Delivery status	This article will no longer be available in the future.
Available until	2019-06-30
Type	CPT SNT 600W 48V 12,5A
Order No.	1105870000
Version	Power supply, switch-mode power supply unit, 48 V
GTIN (EAN)	4032248881390
Qty.	1 pc(s).
Alternative product	2467050000

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Technical data
Dimensions and weights

Width	165 mm	Width (inches)	6.496 inch
Height	125 mm	Height (inches)	4.921 inch
Depth	125 mm	Depth (inches)	4.921 inch
Net weight	3,120 g		

Temperatures

Humidity	0...95 % (no condensation)	Operating temperature, max.	70 °C
Operating temperature, min.	-25 °C	Storage temperature, max.	85 °C
Storage temperature, min.	-25 °C	Operating temperature	-25 °C...70 °C
Storage temperature	-25 °C...85 °C		

Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
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Rated data UL

Certificate No. (cURus)	E255651	Certificate No. (UL)	E255651
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Input

AC current consumption	5 A @ 230 V AC, 10 A @ 115 V AC	AC input voltage range	85...132 V AC, 187...264 V AC
Connection system	Screw connection	Frequency range AC	47...63 Hz
Input fuse (internal)	12 A	Inrush current	< 30 A (230 V AC)
Rated input voltage	100...240 V AC (auto-select)	Recommended back-up fuse	16...25 A, Char. B, circuit breaker
Wire connection method	Screw connection		

output

Continuous output current @ $U_{Nominal}$	12.5 A @ 60 °C, 10 A @ 60 °C, 2.5 A @ 70 °C	Nominal output current for U_{nom}	12.5 A @ 60 °C
Output power	600 W	Output voltage	48 V
Output voltage	48...56 V (adjustable via potentiometer on front)	Output voltage type	DC
Parallel connection option	yes, max. 5	Rated output voltage	48 V DC \pm 1 %
Residual ripple, breaking spikes	100 mV _{SS} @ 48 V DC, I_{Nenn}	Wire connection method	Screw connection

General data

AC failure bridging time @ I_{nom}	min. 20 ms @ 230 V AC, min. 10 ms @ 115 V AC	Current limiting	> 100 % I_N
Degree of efficiency	Typ.: 91 % @ 230 V AC	Housing version	Metal, corrosion resistant
Humidity	0...95 % (no condensation)	Indication	Dual LED Operational: green LED, Error: red LED
MTBF	> 0.9 mill. h	Mounting position, installation notice	Horizontal on TS35 rail, with 80 mm of clearance at top and bottom for air circulation; can be aligned side-by-side with 50 mm gap in between.
Operating temperature	-25 °C...70 °C	Protection degree	IP20
Short-circuit protection	Yes		

Creation date May 27, 2019 9:56:12 PM CEST

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Technical data**EMC / shock / vibration**

Limiting of mains voltage harmonic currents	according to EN 61000-3-2	Noise emission in accordance with EN55032	Class B
Vibration resistance IEC 60068-2-6		Interference immunity test acc. to	EN 61000-4-2 (ESD) EN 61000-4-3 and EN 61000-4-8 (fields) EN 61000-4-4 (burst) EN 61000-4-5 (surge) EN 61000-4-6 (conducted) EN 61000-4-11 (dips)
	3 axes, sinus, 10...55 Hz, 1 g, 1 oct/min.		
Shock resistance IEC 60068-2-27	3 axes, half sinus, 15 g, 11 ms		

Insulation coordination

Insulation voltage	4 kV (input / output)	Pollution severity	2
Protection degree	I, with PE connection		

Electrical safety (applied standards)

Electrical machine equipment	Acc. to EN60204	For use with electronic equipment	Acc. to EN50178 / VDE0160
Safety extra-low voltage	SELV according to EN 60950	Safety transformers for switch-mode power supplies	according to EN 61558-2-4

Connection data (input)

Conductor cross-section, AWG/kcmil , max.	10	Conductor cross-section, AWG/kcmil , min.	18
Conductor cross-section, flexible , min.	1 mm ²	Conductor cross-section, rigid , max.	4 mm ²
Conductor cross-section, rigid , min.	1 mm ²	Connection system	Screw connection
Number of terminals	3 for L/N/PE	Tightening torque, max.	0.6 Nm
Tightening torque, min.	0.5 Nm	Wire connection cross section, flexible (input), max.	4 mm ²

Connection data (output)

Conductor cross-section, AWG/kcmil , max.	10	Conductor cross-section, AWG/kcmil , min.	12
Conductor cross-section, flexible , max.	4 mm ²	Conductor cross-section, flexible , min.	2.5 mm ²
Conductor cross-section, rigid , max.	2.5 mm ²	Conductor cross-section, rigid , min.	1 mm ²
Number of terminals	7 (+ / - / signal)	Tightening torque, max.	0.6 Nm
Tightening torque, min.	0.5 Nm		

Connection data (signal)

Number of terminals	3	Wire connection method	Pluggable screw connection
Wire cross-section, AWG/kcmil , max.	12	Wire cross-section, AWG/kcmil , min.	32
Wire cross-section, solid , max.	2.5 mm ²	Wire cross-section, solid , min.	0.2 mm ²

Signalling

Active output signal	44 V DC ± 4 V DC / max. 15 mA	Power Good Signal	Trigger point 36...44 V DC
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Data sheet

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Technical data

Approvals

Institute (CSA)		Certificate No. (CSA)	
			246286-2148800
Institute (UL)		Certificate No. (UL)	
			E255651
Institute (cURus)		Certificate No. (cURus)	
			E255651

Classifications

ETIM 4.0	EC002541	ETIM 5.0	EC002541
ETIM 6.0	EC002540	eClass 6.2	27-04-90-04
eClass 7.1	27-04-90-04	eClass 8.1	27-04-90-04
eClass 9.0	27-04-07-01	eClass 9.1	27-04-07-01

Approvals

Approvals	
ROHS	Conform

Downloads

Approval/Certificate/Document of Conformity	DE_PA5200_160421_001.pdf
Brochure/Catalogue	CAT 4.3 ELECTR 15/16 EN
Engineering Data	EPLAN, WSCAD
User Documentation	Warrenty Information Power Supplies.pdf Operating Instructions