

CP T SNT 600W 24V 25A

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 16

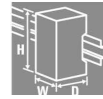
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The powerful new line of PRO-H power supplies – with ATEX and Class I Div. 2 approvals – is designed for use in Ex zones and the high-performance sector. High power reserves, a wide operating temperature range of -25 °C to +70 °C and high MTBF values (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

Order No.	1105840000
Type	CP T SNT 600W 24V 25A
Version	Power supply, switch-mode power supply unit
GTIN (EAN)	4032248881406
Qty.	1 pc(s).

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Technical data

Dimensions and weights

Width	165 mm	Height	125 mm
Depth	125 mm	Weight	2.8 kg
Net weight	3,153 g		

Temperatures

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

Input

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

output

Output voltage type	DC	Output voltage, max.	28 V
Output voltage, min.	24 V	Output voltage, note	(adjustable via potentiometer on front)
Parallel connection option	yes, max. 5	Rated (nominal) output current @ U_{Nom}	25 A @ 40 °C
Wire connection method	Screw connection	continuous output current @ 24 V DC	25 A @ 40 °C, 20 A @ 60 °C, 13.3 A @ 70 °C
rated output voltage	24 V DC \pm 1 %	residual ripple, breaking spikes	100 mV _{PP} @ 24 V DC, I_{nenn}

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. 89 % @ 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	Weight	2.8 kg

EMC / shock / vibration

Limiting of mains voltage harmonic currents	in accordance with EN 61000-3-2	Noise emission acc. to EN55022	Class B
Vibration resistance IEC 60068-2-6	3 axes, sinus, 10...55 Hz, 1 g, 1 oct/min.	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)
Shock resistance IEC 60068-2-27	3 axes, half sinus, 15 g, 11 ms		

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Insulation coordination

Class of protection	I, with PE connection	Insulation voltage	4 kV (input / output)
Pollution severity	2		

Electrical safety (applied standards)

Electrical machine equipment	Acc. to EN60204	For use with electronic equipment	Acc. to EN50178 / VDE0160
Safety extra-low voltage	SELV in accordance with EN60950	Safety transformers for switch-mode power supplies	in accordance with EN 61558-2-4

Connection data (input)

Conductor cross-section, AWG/kcmil , max.	10	Conductor cross-section, AWG/kcmil , min.	18
Conductor cross-section, rigid , max.	4 mm ²	Conductor cross-section, rigid , min.	1 mm ²
Number of terminals [Input]	3 for L/N/PE	Tightening torque, max.	0.6 Nm
Tightening torque, min.	0.5 Nm		

Connection data (output)

Conductor cross-section, rigid , max.	2.5 mm ²	Conductor cross-section, rigid , min.	1 mm ²
Number of terminals [Output]	7 (+ / - / Signal)	Tightening torque, max.	0.6 Nm
Tightening torque, min.	0.5 Nm		

Connection data (signal)

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

Signalling

Active output signal	22 V DC ± 2 V DC / max. 20 mA	Power Good Signal	Trigger point 18...22 V DC
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Approvals

Institute (CSA)		Certificate No. (CSA)	246286-2148800
Institute (UL)		Certificate No. (UL)	E236157CON_1
Institute (cULus)		Certificate no. (cULus)	E258476CON_1
Institute (cURus)		Certificate No. (cURus)	E255651CONV

Rated data UL

Certificate No. (UL)	E236157CON_1
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Classifications

eClass 6.2	27-04-90-04	eClass 7.1	27-04-90-04
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Approvals

Approvals	
ROHS	Conform

Downloads

Package insert	Operating Instructions
Declaration of Conformity	K491_05_12.pdf
PDF	Warrenty Information