

CP SNT 300W 24V 12.5A

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 16

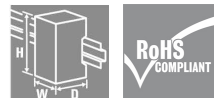
D-32758 Detmold

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One-phase switched-mode power unit in a compact metal housing for rail mounting

Performance classes 55 W, 160 W, 300 W. These power supplies can be universally deployed because of their wide input range

from 85 V AC to 265 V AC. They are available with output voltages of 5 V, 12 V, 24 V and 48 V.

The 300 W ConnectPower power pack includes active PFC control and comprehensive monitoring functions.

To increase the power output, up to five power units can be connected in parallel without decoupling on the output side.

General ordering data

Order No.	9916250024
Type	CP SNT 300W 24V 12.5A
Version	Power supply, switch-mode power supply unit
GTIN (EAN)	4032248217762
Qty.	1 pc(s).

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Technical data**Dimensions and weights**

Length	101 mm	Width	240 mm
Height	155 mm	Depth	101 mm
Weight	1,180 g	Net weight	1,767 g

Temperatures

Operating temperature	-15 °C...+50 °C	Storage temperature	-40 °C...+85 °C
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Input

Conductor connection system	Screw connection	Connection range	AWG 26-12 / 0.13 to 4.0 mm ²
Input current	3.3 A @ 115 V AC; 1.65 A @ 230 V AC	Input current at 100 Vdc	3.7 A ± 10%
Input current at 115 Vac	3.3 A ± 10%	Input current at 200 Vdc	1.85 A ± 10%
Input current at 230 Vac	1.65 A ± 10%	Input frequency	50/ 60 Hz
Input fuse	Thermistor	Input voltage (voltage mode input)	86...265 V AC, 100...200 V DC; typ 115...230 V AC
Power factor input	0.99 (PFC)	Remote activation on/off	REMOTE on/off, via external switching contact, that can switch the power supply unit on or off with 12 VDC to 24 VDC.
Surge protection	Varistor	Turn-on current limit	Thermistor

output

Conductor connection system	Screw connection	Connection range	AWG 26-12 / 0.13 to 4.0 mm ²
Control at 10...100% load	0.2%	Control at input voltage	0.10%
Mains failure bridge-over time	40 ms @ 115 V AC / 40 ms @ 230 V AC	Mains failure bridge-over time for 115 V AC	40 ms
Mains failure bridge-over time for 230 V AC	40 ms	Max. capacitance at output	10000 µF
Max. residual ripple	at 100 kHz: 2 mV _{SS} . At 120 Hz: 20 mV AC _{eff}	Monitoring function	Output voltage, current, temperature
Output current	12.5 A	Output power	300 W
Output voltage type	DC	Output voltage, max.	28 V
Output voltage, min.	22 V	Output voltage, note	adjustable
Overload protection	Overload current and surge protection	Parallel connection option	Yes, max. 5 devices, active current splitting
Signalling delay	2 s	Surge protection	Varistor
Voltage stability at 115 V AC	40 ms	Voltage stability at 230 V AC	40 ms
rated output voltage	24 V DC ± 1 %		

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Technical data**General data**

Building Width	240 mm	Building height	155 mm
Degree of efficiency at max. load	80%	Depth	101 mm
Derating	Derating: 20% @ 60°C	EMC standards	EN 55011, EN 55022, EN 55024, EN 61000-6-2, 3
Low Voltage Directive	73/ 23/ EWG	Mounting position, installation notice	horizontally, on terminal rail TS 35
Operating temperature	-15 °C...+50 °C	Power factor correction	PFC passive
Standards	DIN EN 50178, DIN EN 60950, IEC950	Status indication	Current limiting: LED yellow / Error: LED red / On: LED green
Switching frequency	100 kHz	Weight	1,180 g

Insulation coordination

Humidity at operating temperature	20 to 85% RH without condensation	Humidity at storage temperature	20 to 90% RH without condensation
Insulation strength	I/O: 3000 V rms, I/O: TS:4000 V rms, Input/PE: 2500 V rms, Output/PE: 500 V rms	electrical isolation, I/O rail	4 kV
electrical isolation, input-earth	1.5 kV	electrical isolation, input-output	3 kV
electrical isolation, output-earth	0.5 kV		

Signalling

Status indication	Current limiting: LED yellow / Error: LED red / On: LED green
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Approvals

Institute (CSA)



Certificate No. (CSA)

200039-1753904CB

Classifications

ETIM 2.0	EC001039	ETIM 3.0	EC001039
UNSPSC	30-21-18-01	eClass 4.1	27-24-04-10
eClass 5.1	27-04-90-02	eClass 6.0	27-04-90-04
eClass 7.0	27-04-90-04		

Approvals

Approvals

**Downloads**Declaration of Conformity [ECC1625_01_09.pdf](#)

Creation date February 26, 2013 7:05:06 PM CET

Catalogue status 20.12.2012 / We reserve the right to make technical changes.

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Drawings

Electric symbol

