



Power for Automation™

connectPower®
POWER FOR AUTOMATION

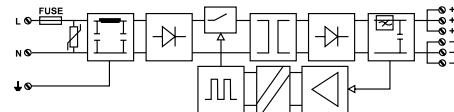
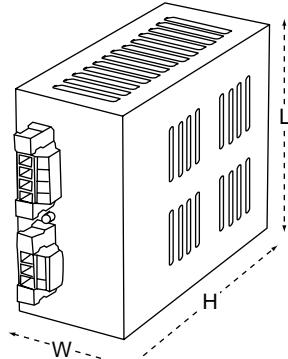
Switchmode Power Supplies

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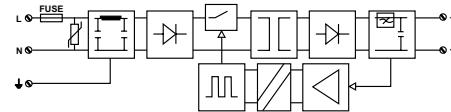


Weidmüller 
The Interface Partner

CP-SNT 12W

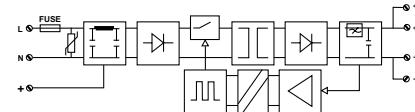
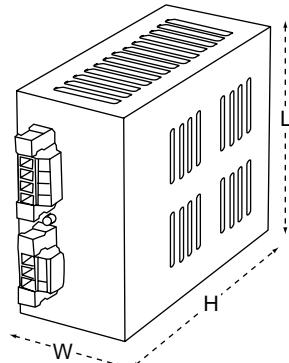


CP-SNT 24W



Input Voltage	minimum typical maximum	85Vac, 120Vdc 115-230Vac±10%, 50/60Hz 265Vac, 300Vdc	85Vac, 120Vdc 115-230Vac±10%, 50/60Hz 265Vac, 300Vdc	
Input Current (average values for reference only)	@115Vac @230Vac @125Vdc @250Vdc	250mA RMS ±20% 150mA RMS ±20% 125mA ±20% 65mA ±20%	480mA RMS ±20% 270mA RMS ±20% 280mA ±20% 140mA ±20%	
Input Protection	fuse inrush current overvoltage	2A slow blow (internal) Thermistor Varistor	2A slow blow (internal) Thermistor Varistor	
Switching Frequency	100kHz PWM	100kHz PWM	100kHz PWM	
Efficiency @max. load	79%	86%	86%	
Maximum Ripple	0.1% RMS	0.3% RMS	0.3% RMS	
Regulation	load (10-100% load) line	0.2% 0.2% 85Vac to 265 Vac In Overcurrent shutdown with automatic restart plus thermal shutdown	0.2% 0.2% Overcurrent shutdown with automatic restart plus thermal shutdown	
Overload Protection	5,000µF 14ms 70ms -40°C...+85°C -20°C...+50°C full rated load derate: 33% @60°C 20 to 85%RH non-condensing 20 to 90%RH 3kV 4kV 1.5kV 500V 26-12AWG (0.1-4.0mm ²) 90 x 18 x 112.5 140g TS35 Rail	5,000µF 14ms 68ms -40°C...+85°C -20°C...+50°C full rated load derate: 33% @60°C 20 to 85%RH non-condensing 20 to 90%RH 3kV 4kV 1.5kV 500V 26-12AWG (0.1-4.0mm ²) 90.5 x 52 x 62.5 160g TS35 Rail	8,000µF 14ms 68ms -40°C...+85°C -20°C...+50°C full rated load derate: 33% @60°C 20 to 85%RH non-condensing 20 to 90%RH 3kV 4kV 1.5kV 500V 26-12AWG (0.1-4.0mm ²) 90.5 x 52 x 62.5 160g TS35 Rail	
Max. Load Capacitance on output				
Hold time (full output current after loss of input)	@115Vac @230Vac			
Temperature: storage operating				
Humidity operating storage				
Galvanic Isolation input to output input/output to rail input to ground output to ground				
Wire size				
Dimensions in mm (length x width x height)	90 x 18 x 112.5	90 x 18 x 112.5	90.5 x 52 x 62.5	
Weight	140g	140g	160g	
Mounting	TS35 Rail	TS35 Rail	TS35 Rail	
Special Features				
Output voltage/max.current/catalog no.	24Vdc / 0.5A	991884 0024	24Vdc / 1A 28Vdc / 1A 15Vdc / 1.5A 12Vdc / 1.5A 5Vdc / 2A	992889 0024 992889 0028 992889 0015 992889 0012 992889 0005
Approvals/Certifications	CSA, UL Listed, CE mark		CSA, UL Listed, CE mark	
			CSA Class 1 Div 2 (992889 0024 only)	

CP-SNT 55W



Input Voltage

minimum

typical

maximum

Input Current
(average values for
reference only)

@115Vac

@230Vac

0.10A RMS ±10%

0.55A RMS ±10%

Input Protection

fuse

inrush current

overvoltage

Switching Frequency

Efficiency @max. load

Maximum Ripple

Regulation

load (10-100% load)

line

Overload Protection

Max. Load Capacitance on output

Hold time

@115Vac

(full output current after loss of input)

@230Vac

Temperature:

storage

operating

Humidity

operating

storage

Galvanic Isolation

input to output

input/output to rail

input to ground

output to ground

Wire size

Dimensions in mm (length x width x height)

Weight

Mounting

Special Features

Output voltage/max.current/catalog no.

85Vac, 120Vdc

115-230Vac±10%, 50/60Hz

265Vac, 300Vdc

1.10A RMS ±10%

0.55A RMS ±10%

590mA ±10%

315mA ±10%

2A slow blow (internal)

Thermistor

Varistor

100kHz PWM

80%

<50mV RMS

1%

0.8%

Overcurrent shutdown with automatic restart plus thermal shutdown

10,000µF

30ms

180ms

-40°C...+85°C

-20°C...+50°C full rated load

derate: 24V-1.7A @60°C

20 to 85%RH non-condensing

20 to 90%RH

3kV

3kV

1.5kV

500V

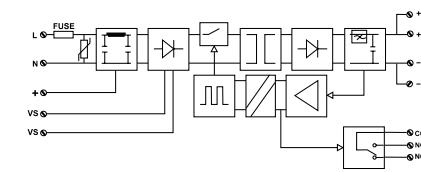
26-12AWG (0.1-4.0mm²)

98 x 57 x 131

478g

TS35 Rail, Chassis (consult factory)

CP-SNT 160W



85Vac / 195Vac

115Vac / 230Vac±10%,(selectable) 50/60Hz

138Vac / 250Vac

2.9A RMS ±20%

1.45A RMS ± 20%

6.3A slow blow (internal)

Thermistor

Varistor

65kHz PWM

85%

0.2% RMS

2%

0.5%

Overcurrent shutdown with automatic restart and output overvoltage protection

6,000µF

30ms

30ms

-40°C...+85°C

-20°C...+50°C full rated load

derate: 24V-5A @ 60°C

20 to 85%RH non-condensing

20 to 90%RH

3kV

3kV

1.5kV

500V

26-12AWG (0.1-4.0mm²)

127 x 57 x 175

880g

TS35 Rail, Chassis (consult factory)

Fault Relay (NO, C, NC), Load Sharing

24Vdc - 28Vdc / 6.5A

992534 0024

24Vdc - 28Vdc / 2.3A

992748 0024

48Vdc / 1.04A

992748 0048

12Vdc - 15Vdc / 3A

992748 0012

5Vdc / 3A

992748 0005

Approvals/Certifications

CSA, UL Listed, CE mark

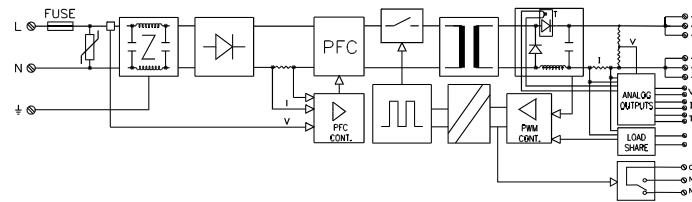
CSA Class1 Div 2 (992748 0024 only)

The complete DC power solution



300W

Input	Analog Outputs	Load Sharing	Fault Relay	Output
<ul style="list-style-type: none"> universal 115-230Vac, 100-200Vdc active power factor corrected 	<ul style="list-style-type: none"> three 0-10Vdc signals representing: <ul style="list-style-type: none"> - output voltage - output current - internal temperature 	<ul style="list-style-type: none"> parallel from 2 to 5 units for increased current or redundancy no adjustments required <ul style="list-style-type: none"> - simply connect the load sharing terminals 	<ul style="list-style-type: none"> form C 250Vac @ 0.1A, 30Vdc @ 1A relay de-energizes with undervoltage, overvoltage, overtemperature, internal fault and short circuit 	<ul style="list-style-type: none"> 24Vdc@12.5A nominal adjustable: 22-28Vdc over-current and over-temperature protection multiple + and - terminals for easy power distribution



<u>Input voltage</u>	minimum typical maximum	86Vac, 100Vdc 115-230Vac ±10% 50/60Hz 265Vac, 200Vdc
<u>Input current @300Watts</u>	@115Vac @230Vac @100Vdc @200Vdc	Note: For DC operation connect the positive to L and the negative to N. 3.3A RMS±10% 1.65A RMS ±10% 3.7A ±10% 1.85A ±10%
<u>Input power factor</u>	0.99 (under all load conditions)	
<u>Input current</u>	Sinusoidal (active power factor corrected)	
<u>Topology</u>	Boost PFC/forward PWM	
<u>Input protection</u>	fuse inrush current overvoltage	5A slow blow 5x20mm
	Thermistor	
	Varistor	
<u>PFC and PWM switching frequency</u>	100kHz ±5%	
<u>Efficiency</u>	@max. load 80% typical	
<u>Switch ON time</u>	@115Vac @230Vac	1.5 sec. 0.7 sec.
<u>Output ripple</u>	@120Hz @100kHz	20mVac RMS 2mV peak to peak (differential voltage)
<u>Regulation</u>	load (10-100% load) line (86-265Vac RMS)	1% 0.2%
<u>Protection</u>	overvoltage undervoltage overcurrent	Vout > 30Vdc Vout < 14Vdc @Vout = 22Vdc, Iout > 13.8A @Vout = 24Vdc, Iout > 13.5A @Vout = 28Vdc, Iout > 11.6A
	thermal	PWM heatsink temperature > 100°C 22Vdc - 28Vdc (pot. adj.)
<u>Output voltage adjustment range</u>	22Vdc 24Vdc 28Vdc	13.6A 12.5A 10.7A
<u>Indicators</u>	CURRENT LIMIT FAULT ON	Yellow LED Red LED, shutdown due to overvoltage, undervoltage or over temperature Green LED
<u>Shutdown</u>		Overvoltage, undervoltage or over temperature for more than 2 sec the unit shuts down and the FAULT LED turns ON.
<u>Monitor signals</u>		0-10Vdc analog output signals proportional to the output voltage, output current and internal temperature. output voltage = 0-30Vdc → monitor signal - 0-10Vdc ±3% output current = 0-15A → monitor signal - 0-10Vdc ±3% heat sink temperature = 0-100°C → monitor signal - 0-10Vdc ±3%
<u>Monitor signals output drive</u>	1mA typical	
<u>Load share</u>	up to 5 power supplies in parallel can share the current	
<u>Maximum load capacitance</u>	10,000µF	
<u>Hold time</u>	40 mSec	
(full output current after loss of input)	40 mSec	
<u>Temperature</u>	-40°C to +85°C -20°C to +50°C (full output current)	storage operating derating
	output current capacity reduced by 20% for up to 60°C	
<u>Humidity</u>	20 to 85%RH non-condensing 20 to 90%RH	operating storage
<u>Galvanic isolation</u>	3kV 3kV 1.5kV 500V	input to output input/output to rail input to ground output to ground
<u>Wire size</u>	26 - 12AWG (0.1-4.0mm²), BLZ 28 - 14AWG, (0.08-2.5mm²), BL3.5	input/output others
<u>Dimensions (LxWxH) in mm</u>	104 x 242 x 155	
<u>Weight</u>	1180g	
<u>Mounting</u>	TS35 Rail, chassis (consult factory)	
<u>Output voltage / max. current / catalog no.</u>	24Vdc / 12.5A nominal / 991625	
<u>Approvals/certifications</u>	CSA, UL Listed, CE mark	
	This unit uses forced air ventilation. An internal fan is located on the input side. Fan noise: 26dB(A)@1meter Airflow: 14.5CFM	

The products of the Weidmüller Group connect, condition and network electrical signals and power in equipment, machinery and installations.

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● Industrial automation

● Process automation

● Transportation

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