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Power for Automation™



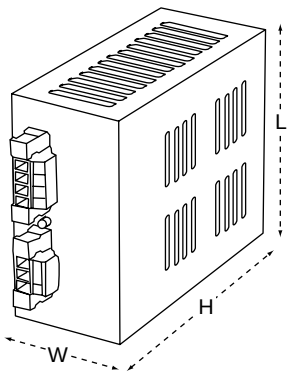
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POWER FOR AUTOMATION

Switchmode Power Supplies

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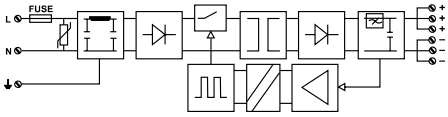
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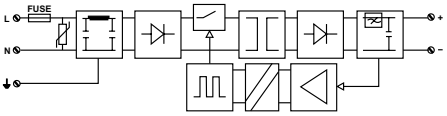
CP-SNT 12W





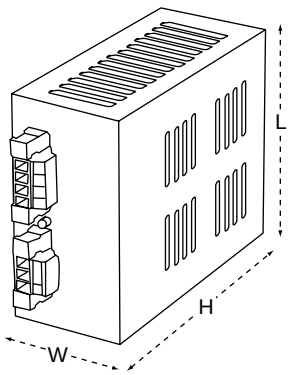
CP-SNT 24W





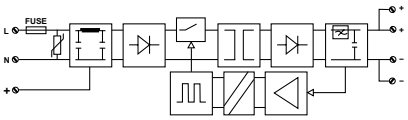
		CP-SNT 12W	CP-SNT 24W
Input Voltage	minimum	85Vac, 120Vdc	85Vac, 120Vdc
	typical	115-230Vac±10%, 50/60Hz	115-230Vac±10%, 50/60Hz
	maximum	265Vac, 300Vdc	265Vac, 300Vdc
Input Current	@115Vac	250mA RMS ±20%	480mA RMS ±20%
(average values for	@230Vac	150mA RMS ±20%	270mA RMS ±20%
reference only)	@125Vdc	125mA ±20%	280mA ±20%
	@250Vdc	65mA ±20%	140mA ±20%
Input Protection	fuse	2A slow blow (internal)	2A slow blow (internal)
	inrush current	Thermistor	Thermistor
	overvoltage	Varistor	Varistor
Switching Frequency		100kHz PWM	100kHz PWM
Efficiency @max. load		79%	86%
Maximum Ripple		0.1% RMS	0.3% RMS
Regulation	load (10-100% load)	0.2%	2%
	line	0.2% 85Vac to 265 Vac In	0.2%
Overload Protection		Overcurrent shutdown with automatic restart plus thermal shutdown	Overcurrent shutdown with automatic restart plus themal shutdown
Max. Load Capacitance on output		5,000µF	8,000µF
Hold time	@115Vac	14ms	14ms
(full output current after loss of input)	@230Vac	70ms	68ms
Temperature:	storage	-40ºC...+85ºC	-40°C...+85°C
	operating	-20ºC...+50ºC full rated load derate: 33% @60°C	-20°C...+50°C full rated load derate: 33%@60°C
Humidity	operating	20 to 85%RH non-condensing	20 to 85%RH non-condensing
	storage	20 to 90%RH	20 to 90%RH
Galvanic Isolation	input to output	3kV	3kV
	input/output to rail	4kV	4kV
	input to ground	1.5kV	1.5kV
	output to ground	500V	500V
Wire size		26-12AWG (0.1-4.0mm²)	26-12AWG (0.1-4.0mm²)
Dimensions in mm (length x width x height)		90 x 18 x 112.5	90.5 x 52 x 62.5
Weight		140g	160g
Mounting		TS35 Rail	TS35 Rail
Special Features			
Output voltage/max.current/catalog no.		**24Vdc / 0.5A 991884 0024**	**24Vdc / 1A 992889 0024** **28Vdc / 1A 992889 0028** **15Vdc / 1.5A 992889 0015** **12Vdc / 1.5A 992889 0012** **5Vdc / 2A 992889 0005**
Approvals/Certifications		**CSA, UL Listed, CE mark**	**CSA, UL Listed, CE mark** **CSA Class 1 Div 2 (992889 0024 only)**

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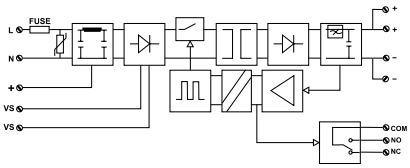
CP-SNT 55W





CP-SNT 160W





Input Voltage	minimum	85Vac, 120Vdc	85Vac / 195Vac
	typical	115-230Vac±10%, 50/60Hz	115Vac / 230Vac±10%,(selectable) 50/60Hz
	maximum	265Vac, 300Vdc	138Vac / 250Vac
Input Current	@115Vac	1.10A RMS ±10%	2.9A RMS ±20%
(average values for	@230Vac	0.55A RMS ±10%	1.45A RMS ± 20%
reference only)	@125Vdc	590mA ±10%	
	@250Vdc	315mA ±10%	
Input Protection	fuse	2A slow blow (internal)	6.3A slow blow (internal)
	inrush current	Thermistor	Thermistor
	overvoltage	Varistor	Varistor
Switching Frequency		100kHz PWM	65kHz PWM
Efficiency @max. load		80%	85%
Maximum Ripple		<50mV RMS	0.2% RMS
Regulation	load (10-100% load)	1%	2%
	line	0.8%	0.5%
Overload Protection		Overcurrent shutdown with automatic restart plus thermal shutdown	Overcurrent shutdown with automatic restart and output overvoltage protection
Max. Load Capacitance on output		10,000µF	6,000µF
Hold time	@115Vac	30ms	30ms
(full output current after loss of input)	@230Vac	180ms	30ms
Temperature:	storage	-40ºC...+85ºC	-40ºC...+85ºC
	operating	-20ºC...+50ºC full rated load	-20ºC...+50ºC full rated load
		derate: 24V-1.7A @60ºC	derate: 24V-5A @ 60ºC
Humidity	operating	20 to 85%RH non-condensing	20 to 85%RH non-condensing
	storage	20 to 90%RH	20 to 90%RH
Galvanic Isolation	input to output	3kV	3kV
	input/output to rail	3kV	3kV
	input to ground	1.5kV	1.5kV
	output to ground	500V	500V
Wire size		26-12AWG (0.1-4.0mm²)	26-12AWG (0.1-4.0mm²)
Dimensions in mm (length x width x height)		98 x 57 x 131	127 x 57 x 175
Weight		478g	880g
Mounting		TS35 Rail, Chassis (consult factory)	TS35 Rail, Chassis (consult factory)
Special Features			Fault Relay (NO, C, NC), Load Sharing
Output voltage/max.current/catalog no.		**24Vdc - 28Vdc / 2.3A 992748 0024**	**24Vdc - 28Vdc / 6.5A 992534 0024**
		48Vdc / 1.04A 992748 0048	
		12Vdc - 15Vdc / 3A 992748 0012	
		5Vdc / 3A 992748 0005	
Approvals/Certifications		**CSA, UL Listed, CE mark**	**CSA, UL Listed, CE mark**
		CSA Class1 Div 2 (992748 0024 only)	

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The complete DC power solution



Input

- universal 115-230Vac, 100-200Vdc
- active power factor corrected

Analog Outputs

- three 0-10Vdc signals representing:
  - output voltage
  - output current
  - internal temperature

Load Sharing

- parallel from 2 to 5 units for increased current or redundancy
- no adjustments required
  - simply connect the load sharing terminals

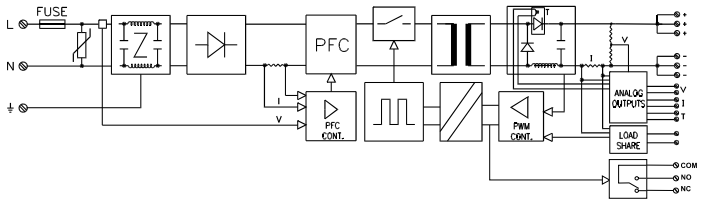
Fault Relay

- form C
- 250Vac @ 0.1A, 30Vdc @ 1A
- relay de-energizes with undervoltage, overvoltage, overtemperature, internal fault and short circuit

Output

- 24Vdc@12.5A nominal adjustable: 22-28Vdc
- over-current and over-temperature protection
- multiple + and - terminals for easy power distribution

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

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- **Process automation**
- **Transportation**

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