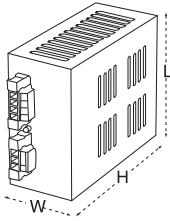


Single Phase Input Supplies – Advanced Features Products

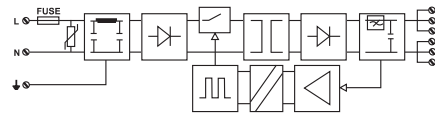


Approvals:



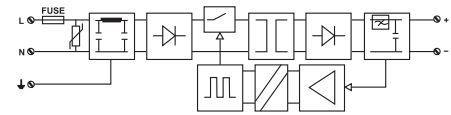
Diagram/Schematic Circuit Diagram

CP SNT 12W 0.5A



– secondary through plug-in jumpers ZQV cross-connectable to other WAVE-modules

CP SNT 24W



Ordering Data

Output voltage/maximum current

Type Order No.

CP SNT 12W 0.5A
24 VDC / 0.5 A 9918840024

Type Order No.

CP SNT 24W
24 VDC / 1 A 9928890024
28 VDC / 1 A 9928890028
15 VDC / 1.5 A 9928890015
12 VDC / 1.5 A 9928890012
5 VDC / 2 A 9928890005

Technical Data

Input voltage	Minimum
	Typical
	Maximum
Input current (Average values for reference only)	at 115 VAC
	at 230 VAC
	at 125 VDC
	at 250 VDC
Input protection	Fuse
	Inrush current
	Overvoltage protection
Switching frequency	
Efficiency at maximum load	
Maximum ripple	
Regulation	Load (10-100% load)
	at input voltage
Overload protection	
Maximum capacitance at output	
Hold time	at 115 VAC
	at 230 VAC
Temperature	Storage
	Operating
Humidity	Operating temperature
	Storage temperature
Galvanic isolation	Input-output
	Input/output to mounting rail
	Input to ground
	Output to ground
Wire size	
Dimensions (L x W x H)	
Weight	
Mounting position	

85 VAC, 120 VDC
115-230 VAC $\pm 10\%$, 50/60 Hz
265 VAC, 300 VDC
260 mA RMS $\pm 20\%$
180 mA RMS $\pm 20\%$
125 mA $\pm 20\%$
65 mA $\pm 20\%$
2 A slow fuse (internal, not user serviceable)
Thermistor
Varistor
100 kHz PWM
80%
0.1% RMS V_{p-p}
0.2%
0.2% 85 VAC - 265 VAC In
Overcurrent shutdown with automatic restart plus thermal shutdown/short circuit
8000 μF
30 ms
80 ms
-40°C...+85°C (-40°F...+185°F)
-20°C...+50°C (-4°F...+122°F) full rated load
Derating: 33% at 60°C (140°F)
20...85% RH non-condensing
20...90% RH
3 kV RMS
4 kV RMS
1.5 kV RMS
500 V RMS
0.1...4.0 mm ² (26...12 AWG)
90 x 18 x 112.5 mm (3.54 x 0.71 x 4.43 in.)
140 g (0.311 lbs.)
Horizontal on mounting rail TS35

85 VAC, 120 VDC
115-230 VAC $\pm 10\%$, 50/60 Hz
265 VAC, 300 VDC
480 mA RMS $\pm 20\%$
270 mA RMS $\pm 20\%$
280 mA $\pm 20\%$
140 mA $\pm 20\%$
2 A slow fuse (internal, not user serviceable)
Thermistor
Varistor
100 kHz PWM
78%
0.3% RMS V_{p-p}
2% (12, 15 and 5 V) 0.5% (24 and 28 V)
0.2%
Overcurrent shutdown with automatic restart plus thermal shutdown/short circuit
8000 μF
35 ms
160 ms
-40°C...+85°C (-40°F...+185°F)
-20°C...+50°C (-4°F...+122°F) full rated load
Derating: 33% at 60°C (140°F)
20...85% RH non-condensing
20...90% RH
3 kV RMS
4 kV RMS
1.5 kV RMS
500 V RMS
0.1...4.0 mm ² (26...12 AWG)
90.5 x 52 x 62.5 mm (3.56 x 2.05 x 2.46 in.)
160 g (0.35 lbs.)
Horizontal on mounting rail TS35

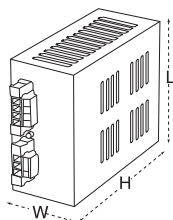
Approvals/Certifications

CSA, UL 508 Listed, CE

CSA, UL 508 Listed, CE

CSA Class 1 Div. 2 and Zone 2 for 9928890012 and 9928890024
UL 1310 (Class 2) for 9928890024

Single Phase Input Supplies—Advanced Features Products



Approvals:



Diagram/Schematic Circuit Diagram

Ordering Data

Output voltage/maximum current

Technical Data

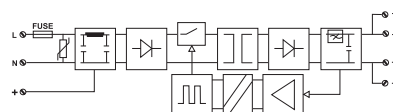
Input voltage	Minimum
	Typical
Input current	Maximum
	at 115 VAC
(Average values for reference only)	
	at 230 VAC
	at 125 VDC
	at 250 VDC
Input protection	Fuse
	Inrush Current
	Overvoltage
Switching frequency	
Efficiency at maximum load	
Maximum ripple	
Regulation	load (10-100% load)
	at Input voltage
Overload protection	
Output surge capability	
Maximum capacitance at output	
Parallel connection for load sharing	
Hold time	at 115 VAC
(Maximum output current following input loss)	at 230 VAC
Temperature	Storage
	Operating
Humidity	Operating temperature
	Storage temperature
Galvanic isolation	Input-output
	Input/output to mounting rail
	Input to ground
	Output to ground
Wire size	
Dimensions (L x W x H)	
Weight	
Mounting position	
Fault relay	

Approvals/Certifications

Accessories

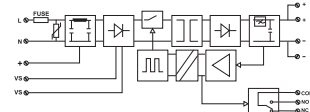
Chassis Mounting Kit
Side mount Bracket—DIN rail

CP SNT 55W



Type	Order No.
CP SNT 55W	
24 VDC-28 VDC / 2.3 A	9927480024
48 VDC / 1.04 A	9927480048
12 VDC - 15 VDC / 3 A	9927480012
5 VDC / 3 A	9927480005
Input voltage	85 VAC, 120 VDC
	115-230 VAC $\pm 10\%$, 50/60 Hz
	265 VAC, 300 VDC
Input current	at 115 VAC
	1.10 A RMS $\pm 20\%$
	at 230 VAC
	0.55 A RMS $\pm 20\%$
	at 125 VDC
	590 mA $\pm 20\%$
	at 250 VDC
	315 mA $\pm 20\%$
Input protection	2 A slow fuse (internal, not user serviceable)
	Thermistor
	Varistor
Switching frequency	100 kHz PWM
Efficiency at maximum load	80%
Maximum ripple	0.1% RMS V_{p-p}
Regulation	load (10-100% load)
	1.0%
	at Input voltage
	0.8%
Overload protection	Overcurrent shutdown with automatic restart plus thermal shutdown/short circuit
Output surge capability	
Maximum capacitance at output	10,000 μ F
Parallel connection for load sharing	
Hold time	30 ms
(Maximum output current following input loss)	180 ms
Temperature	Storage
	-40°C...+85°C (-40°F...+185°F)
	Operating
	-20°C...+50°C (-4°F...+122°F) full rated load
	Derating: 24 V-1.5 A at 60°C (140°F)
Humidity	Operating temperature
	Storage temperature
Galvanic isolation	Input-output
	Input/output to mounting rail
	Input to ground
	Output to ground
Wire size	0.1...4.0 mm ² (26...12 AWG)
Dimensions (L x W x H)	98 x 57 x 131 mm (3.86 x 2.24 x 5.16 in.)
Weight	478 g (1.05 lbs.)
Mounting position	Horizontal on mounting rail TS35, Chassis
Fault relay	
CSA, UL 508 Listed, CE	
CSA Class 1 Div. 2 and Zone 2 for 9927480012 and 9927480024	
UL 1310 (Class 2) for 9927480024	
	Order No.
	7920560000

CP SNT 160W



Type	Order No.
CP SNT 160W	
24 VDC-28 VDC / 6.5 A	9925340024
5 VDC / 10 A	9925340005
12 VDC / 10 A	9925340012
48 VDC / 3.25 A	9925340048
Input voltage	85 VAC / 195 VAC
	115 VAC / 230 VAC $\pm 10\%$, (selectable) 50/60Hz
	138 VAC / 250 VAC
Input current	2.9 A RMS $\pm 20\%$
	1.45 A RMS $\pm 20\%$
Input protection	6.3 A slow fuse (internal, not user serviceable)
	Thermistor
	Varistor
Switching frequency	65 kHz PWM
Efficiency at maximum load	85%
Maximum ripple	0.2% RMS V_{p-p}
Regulation	load (10-100% load)
	2.0%
	at Input voltage
	0.5%
Overload protection	Overcurrent shutdown with automatic restart plus thermal shutdown/short circuit
Output surge capability	13 A / 1 sec
Maximum capacitance at output	6000 μ F
Parallel connection for load sharing	up to 3 devices (passive current division)
Hold time	30 ms
(Maximum output current following input loss)	30 ms
Temperature	Storage
	-40°C...+85°C (-40°F...+185°F)
	Operating
	-10°C...+50°C (40°F...+122°F) max. full rated load
	Derating: 24 V-5.2 A at 60°C (140°F)
Humidity	Operating temperature
	Storage temperature
Galvanic isolation	Input-output
	Input/output to mounting rail
	Input to ground
	Output to ground
Wire size	0.1...4.0 mm ² (26...12 AWG)
Dimensions (L x W x H)	127 x 57 x 175 mm (5.00 x 2.24 x 6.9 in.)
Weight	880 g (1.94 lbs.)
Mounting position	Horizontal on mounting rail TS35, Chassis
Fault relay	Changeover contact, 30 VDC / 125 VAC @ 1 A max.
	Passive Power Factor Correction
CSA, UL 508 Listed, CE	
CSA Class 1 Div. 2 and Zone 2 for 9925340024 and 9925340012	
	Order No.
	7920560000
	7940000542