

Single Phase Input Supplies – General Purpose Solutions

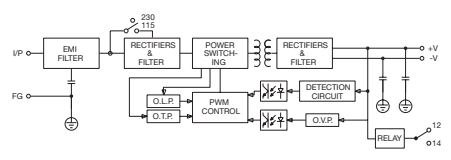


Approvals: **CE** **UL** LISTED

CP SNT 70W 24V 3A

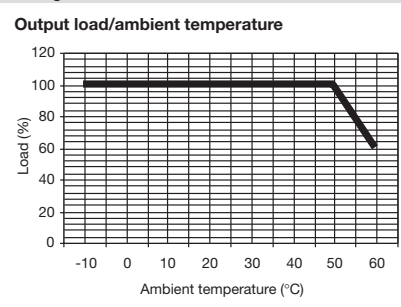


CP SNT 120W 24V 5A

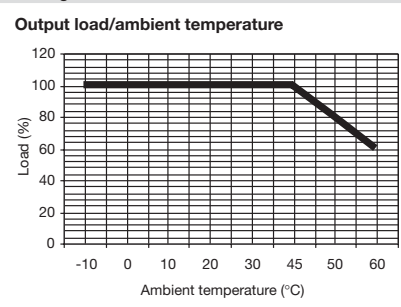


Block diagram for supplies with switchable input voltage

Derating Curves



Derating Curves



Ordering Data

Type	Qty.	Order No.
CP SNT 70W 24V 3A	1	8708660000

Type	Qty.	Order No.
CP SNT 120W 24V 5A	1	8708670000

Technical Data

Input	Input voltage	85...264 VAC; 120...370 VDC
	Input current	2.0 A @ 100...240 VAC
	Input frequency	50/60 Hz
	Recommended mains fuse/internal fuse	Fusible link 2.5 A (T) / 250 V
	Oversvoltage protection	Varistor
Output	Output voltage	24...28 VDC (adjustable via potentiometer)
	Output current	3.0 A
	max. output power	72 W
	max. residual ripple	100 mV _{p-p} / bandwidth 20 Mhz V RMS
	Surge capability	105%...150% I _{const.} of max. output power for up to 5 seconds, automatic restart
	Oversvoltage protection	29...34 V with automatic restart
	Holdup time by mains failure: 115 VAC / 230 VAC	10 ms / 20 ms
Insulation co-ordination	Galvanic isolation output-ground	0.5 kVAC
	Galvanic isolation input-ground	1.5 kVAC
	Galvanic isolation input-output	3 kVAC

Technical Data

Input	Input voltage	88...132 VAC/176...264 VAC reversible; 250...370 VDC
	Input current	3.0 A @ 115 VAC; 2.0 A @ 230 VAC
	Input frequency	50/60 Hz
	Recommended mains fuse/internal fuse	Fusible link 4 A (T) / 250 V
	Oversvoltage protection	Varistor
Output	Output voltage	24...28 VDC (adjustable via potentiometer)
	Output current	5 A
	max. output power	120 W
	max. residual ripple	100 mV _{p-p} / bandwidth 20 Mhz V RMS
	Surge capability	105%...150% I _{const.} of max. output power for up to 5 seconds, automatic restart
	Oversvoltage protection	29...34 V with automatic restart
	Holdup time by mains failure: 115 VAC / 230 VAC	20 ms / 20 ms
Insulation co-ordination	Galvanic isolation output-ground	0.5 kVAC
	Galvanic isolation input-ground	1.5 kVAC
	Galvanic isolation input-output	3 kVAC

General Specifications

Temperature	Operating	-10°C...+55°C (+14°F...+131°F)
	Storage	-20°C...+85°C (-4°F...+185°F)
Efficiency under max. load		80%
Status display		LED green
Standards		EN 60950
EMC standards		EN 55011, EN 55022, EN 55024, EN 61000-6-2, 3
Power factor correction		no
Mounting position		Horizontal on mounting rail TS35
Mounting clearance		above/below ≥ 3 cm
Weight		approx. 0.55 kg (1.21 lbs.)
Type of connection		Screw
Clamping area		0.1...4.0 mm ² (26...12 AWG)
Dimensions (L x W x H)		125 x 55.5 x 110.0 mm (4.92 x 2.18 x 4.33 in.)

General Specifications

Temperature	Operating	-10°C...+55°C (+14°F...+131°F)
	Storage	-20°C...+85°C (-4°F...+185°F)
Efficiency under max. load		84%
Status display		LED green
Standards		EN 60950
EMC standards		EN 55011, EN 55022, EN 55024, EN 61000-6-2, 3
Power factor correction		no
Mounting position		Horizontal on mounting rail TS35
Mounting clearance		above/below ≥ 3 cm
Weight		approx. 0.65 kg (1.43 lbs.)
Type of connection		Screw
Clamping area		0.1...4.0 mm ² (26...12 AWG)
Dimensions (L x W x H)		125 x 65.5 x 110.0 mm (4.92 x 2.58 x 4.33 in.)

Approvals/Certifications

CE 508 (C1D2 approvals pending)

CE 508 (C1D2 approvals pending)

Single Phase Input Supplies – General Purpose Solutions

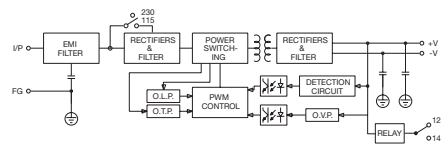


Approvals:

CP SNT 250W 24V 10A



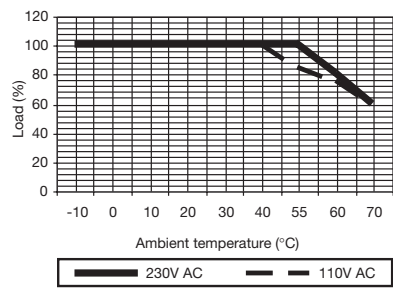
CP SNT 500W 24V 20A



Block diagram for supplies with switchable input voltage

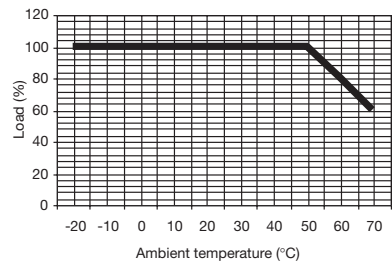
Derating Curves

Output load/ambient temperature



Derating Curves

Output load/ambient temperature



Ordering Data

Technical Data

Input	Input voltage	88...132 VAC / 176...264 VAC reversible; 250...370 VDC
	Input current	3.6 A @ 115 VAC / 2.0 A @ 230 VAC
	Input frequency	50/60 Hz
	Recommended mains fuse/internal fuse	Fusible link 5 A (T) / 250 V
	Overvoltage protection	Varistor
Output	Output voltage	24...28 VDC (adjustable via potentiometer)
	Output current	10 A
	max. output power	240 W
	max. residual ripple	100 mV _{p-p} / bandwidth 20 Mhz
	Surge capability	105%...150% I _{const.} of max. output power for up to 5 seconds, automatic restart
	Overvoltage protection	30...36 V with automatic restart
	Holdup time by mains failure: 115 VAC / 230 VAC	10 ms / 15 ms
	Load regulation	2%
	Redundancy or load sharing	With diode module recommended
	Status relay/change-over contact	250 VAC (max. 30 VDC) / 1A
Insulation co-ordination	Galvanic isolation output-ground	0.5 kVAC
	Galvanic isolation input-ground	1.5 kVAC
	Galvanic isolation input-output	3 kVAC

Type	Qty.	Order No.
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CP SNT 250W 24V 10A	1	8708680000
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Type	Qty.	Order No.
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CP SNT 500W 24V 20A	1	8778870000
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General Specifications

Temperature	Operating	-10°C...+55°C (+14°F...+131°F)
	Storage	-20°C...+85°C (-4°F...+185°F)
Efficiency under max. load		84%
DC output status display		LED green
Standards		EN 60950
EMC standards		EN 55011, EN 55022, EN 55024, EN 61000-6-2, 3
Power factor correction		yes
Mounting position		Horizontal on mounting rail TS35
Mounting clearance		above/below ≥ 3 cm
Weight		approx. 1.6 kg (3.5 lbs.)
Type of connection		Screw
Clamping area		0.1...4.0 mm ² (26...12 AWG)
Dimensions (L x W x H)		125 x 125.5 x 110.0 mm (4.92 x 4.94 x 4.33 in.)

General Specifications

Temperature	Operating	-10°C...+55°C (+14°F...+131°F)
	Storage	-20°C...+85°C (-4°F...+185°F)
Efficiency under max. load		86%
DC output status display		LED green
Standards		EN 60950
EMC standards		EN 55011, EN 55022, EN 55024, EN 61000-6-2, 3
Power factor correction		yes
Mounting position		Horizontal on mounting rail TS35
Mounting clearance		above/below ≥ 3 cm
Weight		approx. 2 kg (4.4 lbs.)
Type of connection		Screw
Clamping area		0.1...4.0 mm ² (26...12 AWG)
Dimensions (L x W x H)		125 x 227.5 x 110.0 mm (4.92 x 8.96 x 4.33 in.)

Approvals/Certifications

CE 508 60950

CE 508 60950