connectPower®
POWER FOR AUTOMATION

CP-SNT 160W 3 Phase Switchmode Power Supply

The 3 phase CP-SNT 160W is a compact switchmode power supply that continues our tradition of more power from smaller packages.

Requiring just 58.4mm (2.3”) of DIN rail, the CP-SNT 160W has the following features:

- 380-480VAC input 50/60Hz
- multiple output terminals
- input and output plug-socket connectors
- over current protection
- output status LED
- output voltage adjustment
- fault relay output (Form C)
- load sharing
- high outrush (surge) capability

Canada
Weidmuller Ltd.
10 Spy Court
Markham, Ontario L3R 5H6
Telephone: (800) 268-4080
Facsimile: (905) 475-2798
Email: info1@weidmuller.ca
Website: www.weidmuller.ca

Mexico
Weidmuller, S.A. de C.V.
Ave. Ingenieros Civiles #204
Conjunto Industrial Chachapa
72990 Puebla, Pue. Mexico
Telephone: (222) 286 62 47
Facsimile: (222) 286 62 42

United States
Weidmuller Inc.
821 Southlake Blvd.
Richmond, Virginia 23236
Telephone: (800) 849-9343
Facsimile: (804) 379-2593
Email: info@weidmuller.com
Website: www.weidmuller.com

Weidmüller

Specifications

992534 0324 24Vdc @ 6.5A - 480Vac Input

Input Voltage	Minimum	342 Vac	
	Typical	480Vac	
	Maximum	528Vac	
Input Current	Minimum Vin	0.34A	
	Typical Vin	0.36A	
	Maximum Vin	0.43A	
Input Protection	Fuse	Yes	3 x T2A 250V
	Inrush Current	5.7A	Thermistor Limited
	Overvoltage	Varistor	
Switching Frequency		100kHz	
Output	Voltage Nominal	24Vdc	
	Voltage Adj. Range	22.5-28.5Vdc	
	Current nominal	6.5A	
	Current Surge	13A	
	Current Surge Time	1 sec	
	Surge Cycle Time	10 sec	
	Max. Load Capacitance	10,000µF	
Efficiency @ max. load	Typical Vin	83%	
Maximum Ripple	Typical Vin	1% (p-p) max.	
Regulation	Load (10 -100%)	3%	
	Line	0.50%	
Protection	Short Circuit	Yes	
	Over Voltage	Yes	
	Under Voltage	Yes	
	Over Temperature	No	
Hold Time	Minimum Vin	15mS	
	Typical Vin	50mS	
	Maximum Vin	70mS	
Temperature Range	Storage	-40 to 85 °C	
	Operating	-20 to 50 °C	Full Load Vertical 65°C
Humidity	Storage	20 to 90%	Non-condensing
	Operating	20 to 85%	Non-condensing
Galvanic Isolation	Input to Output	3KV	
	Input/Output to Rail	3KV	
	Input to Ground	1.5KV	
	Output to Ground	500V	
Wire Size	Input	26-12AWG	
	Output	26-12AWG	
	I/O	26-12AWG	
Dimensions (mm)	LxWxD	5.44 x 2.3 x 7 (138.2 x 58.4 x 177.8)	
Weight (kg)		2.2lbs (.993kg)	
Mounting		TS35 or Chassis	Chassis mountable with optional bracket part #7920560000
Special Features		Fault Relay	Form C, 125Vac and 30Vdc @ 1A rating
		Load sharing	Open loop
		Automatic Restart	Unit typically cycles 0.9s ON and 2.5s OFF.
Approvals/Certifications		CE, cULus Listed	

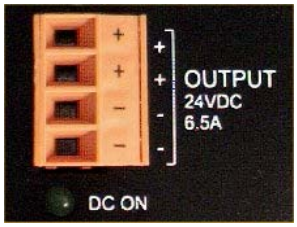
Output Voltage

Output
Adjustable via trimpot located on front cover, from 22.5 to 28.5Vdc
Surge
13A for 1 second
Unit will shutdown if surge exceeds 1 second
Overload
Automatic restart if overloaded. Unit restarts after approximately 4 seconds.

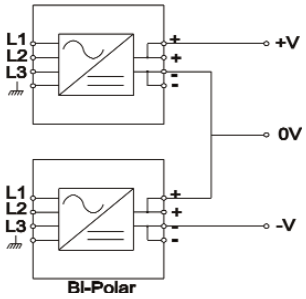
Relay Output

Contacts rated 30VDC 1A or 125VAC, 1A maximum, Form ‘C’ SPDT.
Relay is energized when power supply is operating under normal conditions.

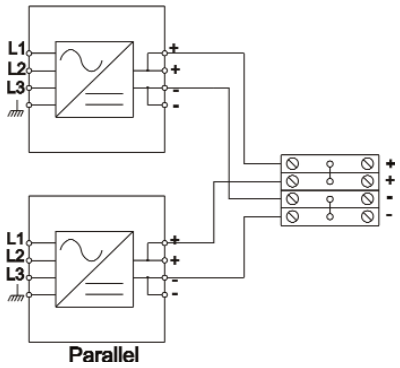
Load Sharing

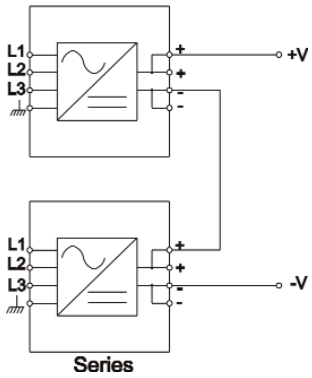


Maximum 2 units can be connected in parallel for load sharing. Derate supplies to 80% capacity (5.2A) when load sharing. Follow these directions for correct operation.
1. Adjust the output voltage of each power supply to the same value before connecting them in parallel (±200mV).
2. Connect wires of the same length from each power supply to terminal blocks.
3. Connect the load(s) at these terminal blocks.

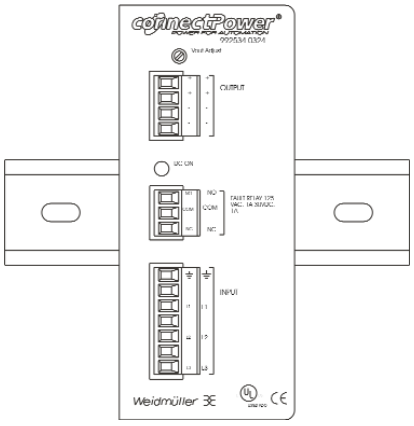


• ⏚ (earth) terminal should be connected to earth ground for safe operation.
•Outputs of power supplies can be connected in parallel.
•Outputs of power supplies can be connected in series.
•Outputs of power supplies can be connected to produce a bi-polar output.
•Power supply should be mounted allowing for natural air flow through the ventilation holes.

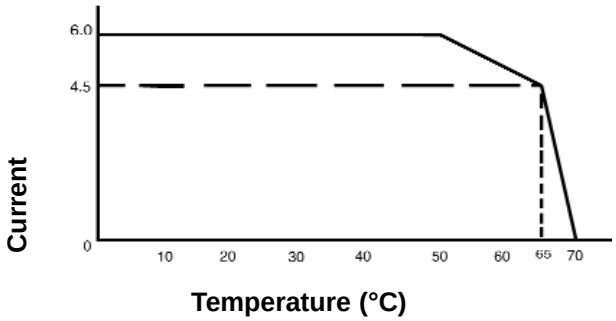


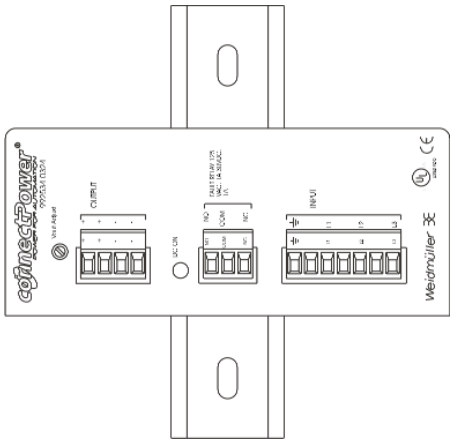


9925340324 Temperature Ratings



O/P Current	Temperature
6.5A	50°C
4.5A	65°C





O/P Current	Temperature
4.6A	50°C
2.5A	65°C