

## 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

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## Specifications

### **992534 0324 24Vdc @ 6.5A - 480Vac Input**

<b>Input Voltage</b>	Minimum	342 Vac	
	Typical	480Vac	
	Maximum	528Vac	
<b>Input Current</b>	Minimum Vin	0.34A	
	Typical Vin	0.36A	
	Maximum Vin	0.43A	
<b>Input Protection</b>	Fuse	Yes	3 x T2A 250V
	Inrush Current	5.7A	Thermistor Limited
	Overvoltage	Varistor	
<b>Switching Frequency Output</b>	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	
	Typical Vin	83%	
	Typical Vin	1% (p-p) max.	
	Load (10 -100%)	3%	
<b>Efficiency @ max. load Maximum Ripple Regulation</b>	Line	0.50%	
	Short Circuit	Yes	
	Over Voltage	Yes	
<b>Protection</b>	Under Voltage	Yes	
	Over Temperature	No	
	Minimum Vin	15mS	
<b>Hold Time</b>	Typical Vin	50mS	
	Maximum Vin	70mS	
	Storage	-40 to 85 °C	
<b>Temperature Range</b>	Operating	-20 to 50 °C	Full Load Vertical 65°C
	Storage	20 to 90%	Non-condensing
<b>Humidity</b>	Operating	20 to 85%	Non-condensing
	Input to Output	3KV	
<b>Galvanic Isolation</b>	Input/Output to Rail	3KV	
	Input to Ground	1.5KV	
	Output to Ground	500V	
	Input	26-12AWG	
<b>Wire Size</b>	Output	26-12AWG	
	I/O	26-12AWG	
	LxWxD	5.44 x 2.3 x 7 (138.2 x 58.4 x 177.8)	
<b>Dimensions (mm)</b>			
<b>Weight (kg)</b>		2.2lbs (.993kg)	
<b>Mounting</b>		TS35 or Chassis	Chassis mountable with optional bracket part #7920560000
<b>Special Features</b>	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.
<b>Approvals/Certifications</b>		CE, cULus Listed	

## Output Voltage



### Output

Adjustable via trimpot located on front cover, from 22.5 to 28.5Vdc

### Surge

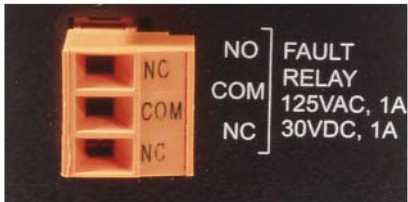
13A for 1 second

Unit will shutdown if surge exceeds 1 second

### Overload

Automatic restart if overloaded. Unit restarts after approximately 4 seconds.

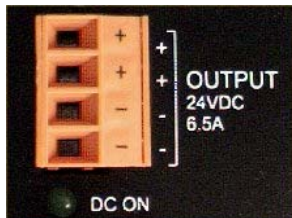
## Relay Output



Contacts rated 30VDC 1A or 125VAC, 1A maximum, Form 'C' SPDT.

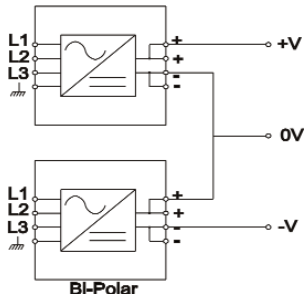
Relay is energized when power supply is operating under normal conditions.

## Load Sharing

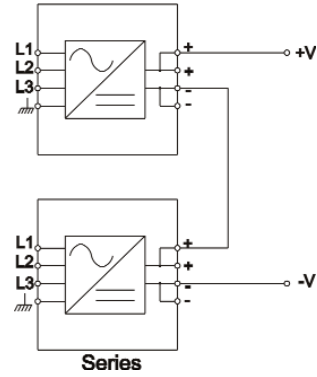
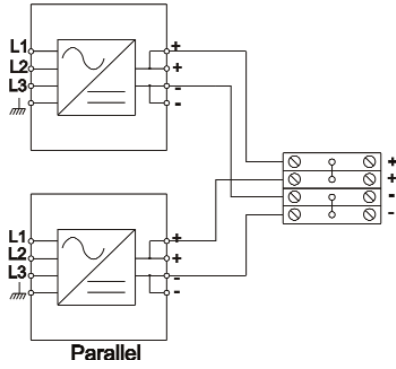


Maximum 2 units can be connected in parallel for load sharing. Derate supplies to 80% capacity (5.2A) when load sharing. Follow these directions for correct operation.

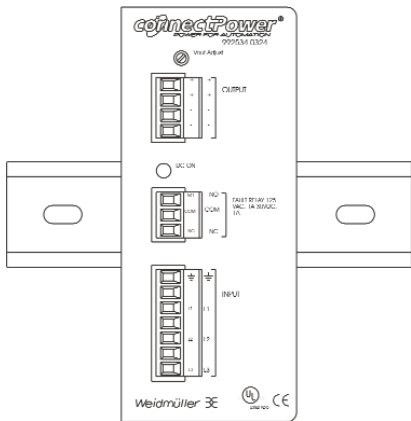
1. Adjust the output voltage of each power supply to the same value before connecting them in parallel ( $\pm 200\text{mV}$ ).
2. Connect wires of the same length from each power supply to terminal blocks.
3. Connect the load(s) at these terminal blocks.



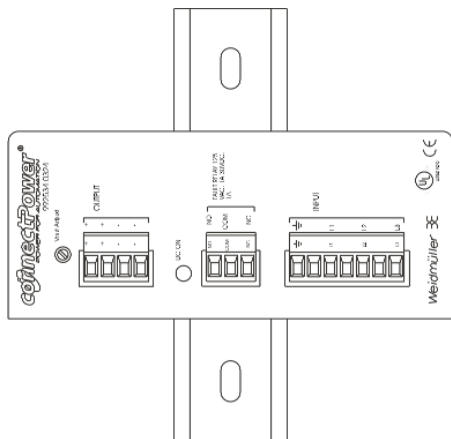
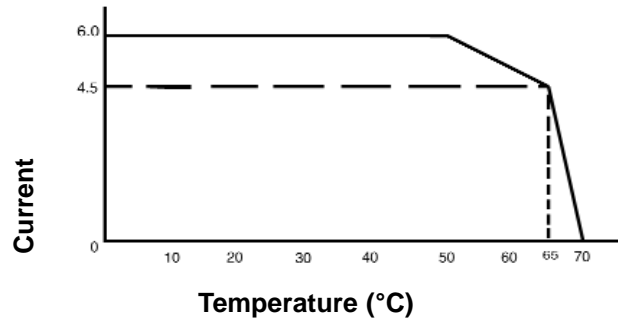
- $\perp$  (earth) terminal should be connected to earth ground for safe operation.
- Outputs of power supplies can be connected in parallel.
- Outputs of power supplies can be connected in series.
- Outputs of power supplies can be connected to produce a bi-polar output.
- Power supply should be mounted 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

