

## POWER SUPPLY 2-PHASE, 12 V DC DIMENSION C SERIES

CT5.121

POWER SUPPLY 12VDC 8A 2 PHASE

- Output current 8 A
- Up to 85.8% efficiency
- Active transient
- High reliability
- Integrated primary fuses



### PRODUCT DESCRIPTION

Puls Dimension C-series stands for cost optimization without compromising on quality, reliability or performance.

CT5 has integrated primary fuses, which make it possible to connect the unit without the requirement of intermediate fuses up to 32 A, which saves space and money. The efficiency is high over a wide load range, which reduces power consumption and give a longer life regardless of load current. An average efficiency value is 84.7% with a top value of 85.4%.

The power supply unit can provide a higher short circuit current for a short time, which helps to trip the secondary fuses. Active transient filters ensure operation even in very disruptive electrical environments, in addition, CT5 features active inrush current protection, which means a very low starting current, even if the unit has been in operation for some time. Especially useful for redundant/parallel connected systems.

Power supply unit connected for 2 phases, which saves both wiring and fuse. Thanks to its low power consumption, the affect of unbalance in the 3- phase system becomes negligible.

We recommend clearance of 40 mm and 20 mm below the unit and 5 mm on the sides.

### SPECIFICATIONS

Type Power Supply	AC-DC
Input voltage range	Wide-range
Power consumption at 400 V ac	0,64 A
Input voltage AC	380-480 V
Input voltage ac min	323 V AC
Input voltage dc max	780 V DC
Input voltage ac max	576 V AC
Inrush current at 400 V ac typical	4 A
Number of phases	2

<b>Power Factor at 400 V AC, full load. Typical</b>	0,44
<b>Supply Frequency</b>	50-60 ±6 %
<b>Input voltage dc min</b>	450 V DC
<b>Ripple. max</b>	100 mV pp
<b>Output voltage min</b>	12 V DC
<b>Power Reduction Of 60 To 70 ° C</b>	2,5 W/°C
<b>Temperature Range Without Derating From</b>	-25 °C
<b>Output voltage</b>	12 V DC
<b>Output voltage max</b>	15 V DC
<b>Effect</b>	96 W
<b>Output Current</b>	8 A
<b>Temperature Range Without Derating To</b>	60 °C
<b>MTBF (IEC 61709) 400 V ac, max loan, +40 °C</b>	983000 h
<b>Lifetime at 400 V ac, full load and +40 ° C</b>	51000 h
<b>Efficiency At 400 V AC, full load. Typical</b>	85,4 %
<b>Efficiency At 400 V AC. Typical</b>	84,7 %
<b>Weight</b>	0,5 kg
<b>Depth</b>	117 mm
<b>Width</b>	40 mm
<b>Height</b>	124 mm
<b>Clamp type</b>	Screw
<b>IP Class</b>	IP20
<b>Hold-up time at 400 V AC, full load. Typical.</b>	33 ms
<b>Series</b>	Dimension C
<b>Approvals</b>	ABS, CB, CE, CSA US, cRUus, cULus, GL
<b>Material Protection</b>	Aluminium
<b>Active Transient</b>	Yes

Fig. 8-1 Efficiency vs. output current at 12V, typ.

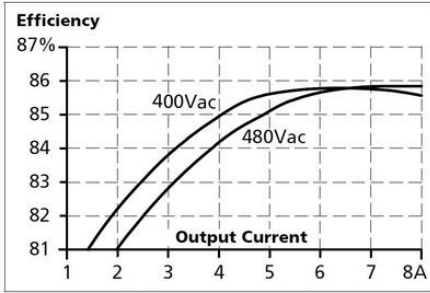


Fig. 8-2 Losses vs. output current at 12V, typ.

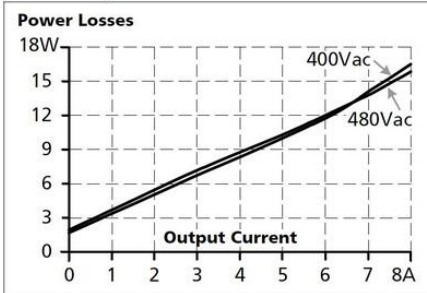


Fig. 14-1 Output current vs. ambient temp.

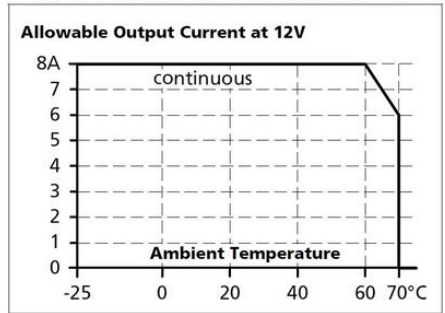


Fig. 6-1 Output voltage vs. output current, typ.

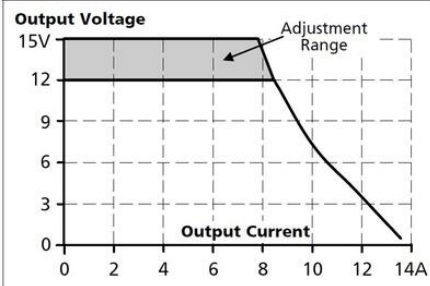


Fig. 10-1 Front side



Fig. 21-1 Front view

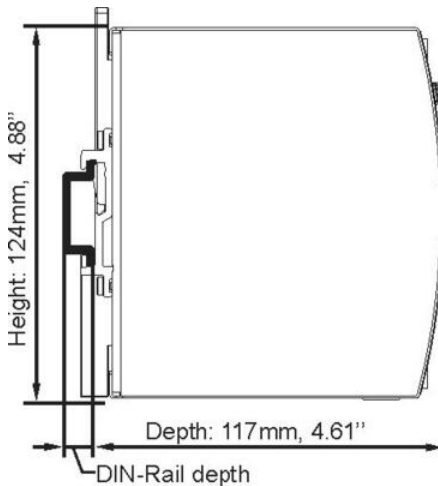
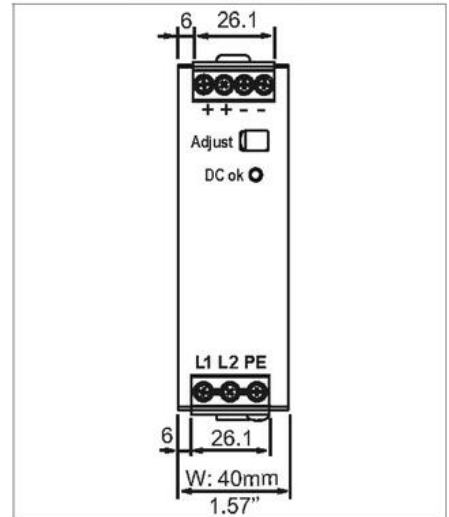


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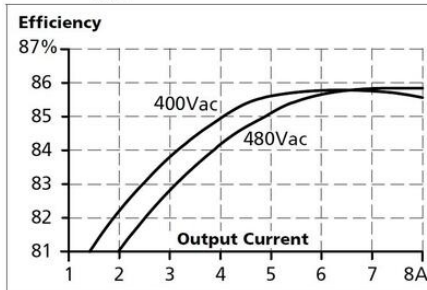


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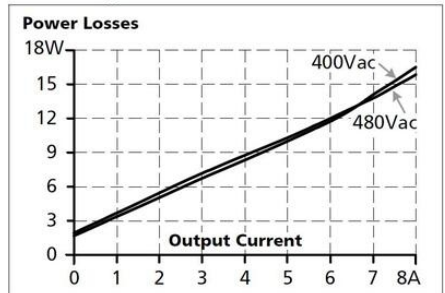


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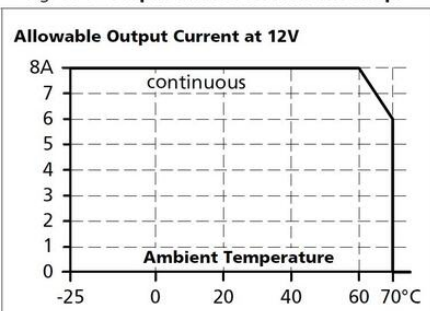


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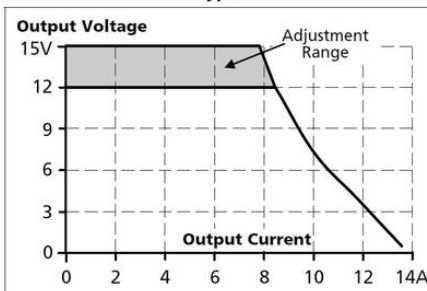


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