

## 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

<b>Input voltage range</b>	Wide-range
<b>Number of phases</b>	2
<b>Input voltage AC</b>	380-480 V
<b>Input voltage ac min</b>	323 V AC
<b>Input voltage ac max</b>	576 V AC
<b>Input voltage dc min</b>	450 V DC
<b>Input voltage dc max</b>	780 V DC
<b>Inrush current at 400 V ac typical</b>	4 A
<b>Power Factor at 400 V AC, full load. Typical</b>	0.44

<b>Supply Frequency</b>	50-60 ±6 %
<b>Power consumption at 400 V ac</b>	0.64 A
<b>Type Power Supply</b>	AC-DC

<b>Output voltage</b>	12 V DC
<b>Output voltage min</b>	12 V DC
<b>Output voltage max</b>	15 V DC
<b>Output Current</b>	8 A
<b>Effect</b>	96 W
<b>Power Reduction Of 60 To 70 ° C</b>	2.5 W/°C
<b>Ripple. max</b>	100 mV pp
<b>Temperature Range Without Derating From</b>	-25 °C
<b>Temperature Range Without Derating To</b>	60 °C

<b>Efficiency At 400 V AC. Typical</b>	84.7 %
<b>Efficiency At 400 V AC, full load. Typical</b>	85.4 %
<b>Lifetime at 400 V ac, full load and +40 ° C</b>	51000 h
<b>MTBF (IEC 61709) 400 V ac, max loan, +40 ° C</b>	983000 h

<b>Width</b>	40 mm
<b>Height</b>	124 mm
<b>Depth</b>	117 mm
<b>Weight</b>	0.5 kg

<b>Clamp type</b>	Screw
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<b>Series</b>	Dimension C
<b>Approvals</b>	ABS, CB, CE, CSA US, cRUus, cULus, GL
<b>Material Protection</b>	Aluminium
<b>Hold-up time at 400 V AC, full load. Typical.</b>	33 ms
<b>IP Class</b>	IP20
<b>Active Transient</b>	Yes

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

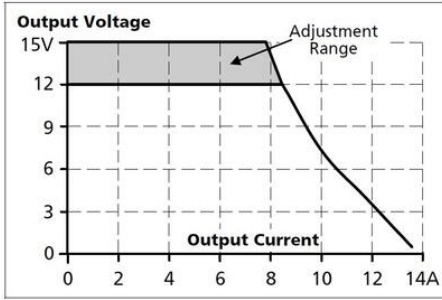


Fig. 14-1 Output current vs. ambient temp.

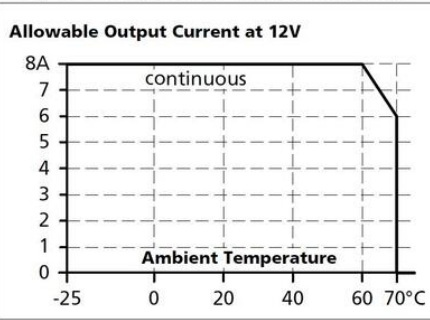


Fig. 8-1 Efficiency vs. output current at 12V, typ.

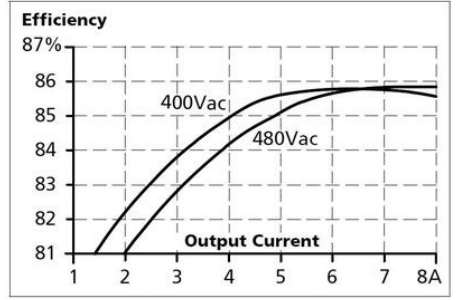


Fig. 8-2 Losses vs. output current at 12V, typ.

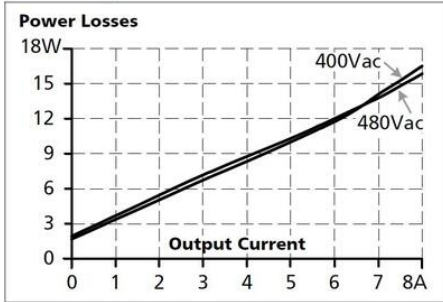


Fig. 10-1 Front side



Fig. 21-1 Front view

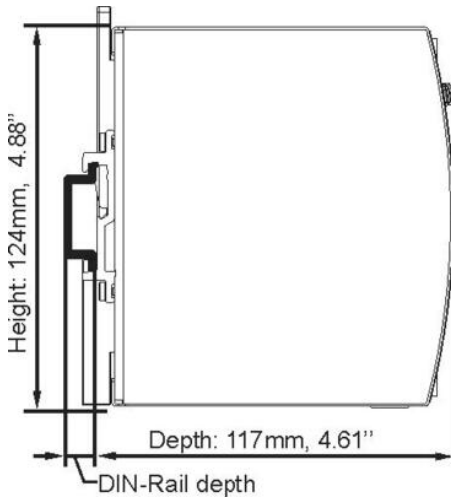
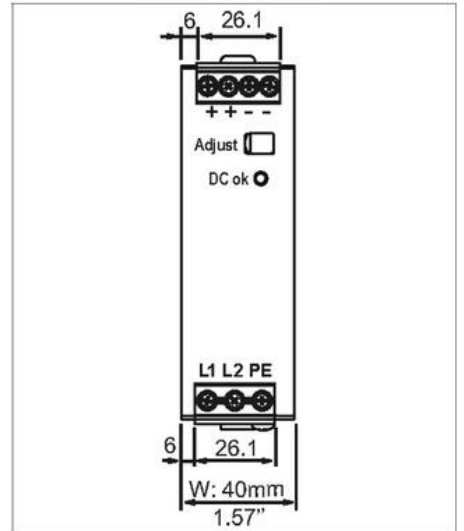


Fig. 6-1 Output voltage vs. output current, typ.

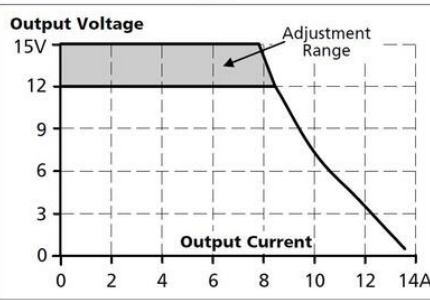


Fig. 14-1 Output current vs. ambient temp.

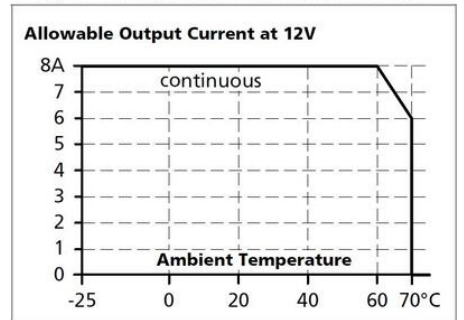


Fig. 8-1 Efficiency vs. output current at 12V, typ.

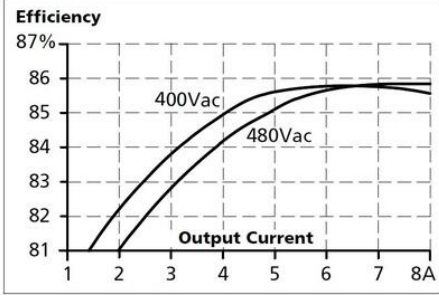


Fig. 8-2 Losses vs. output current at 12V, typ.

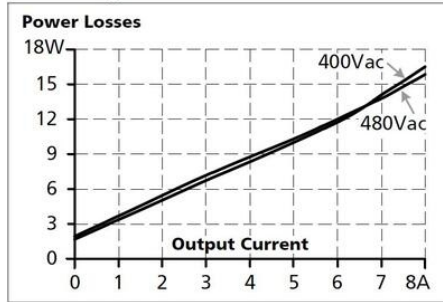


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