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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.

TECHNICAL DATA

INPUT DATA

Input voltage range	Wide-range
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
Power factor at 400 V ac, full load. Typical	0,44

Input voltage dc min	450 V DC

OUTPUT DATA

Output voltage min	12 V DC
Output voltage	12 V DC
Output voltage max	15 V DC
Power	96 W
Output current	8 A

EFFICIENCY / LIFETIME / MTBF

MTBF (IEC 61709) 400 V ac, max loan, +40 °C	983000 h
Lifetime at 400 V ac, full load and +40 ° C	51000 h
Efficiency at 400 V ac, full load, typical	85,4 %
Efficiency at 400 V ac, typical	84,7 %

DIMENSIONS

Weight	0,5 kg
Depth	117 mm
Width	40 mm
Height	124 mm

OTHER

IP class	IP20
Ripple max	100 mV pp
Hold time at 400 V ac, typical full load	33 ms
Power consumption at 400 V ac	0,64 A
Power drop from +60 °C to + 70 °C	2,5 W/°C
Clamp type	Screw
Temperature min without derating	-25 °C
Series	Dimension C
Supply frequency	50-60 ±6 %
Approvals	ABS, CB, CE, CSA US, cRUus, cULus, GL
Temperature max without derating	60 °C
Material protection	Aluminium

Type Power Supply	AC-DC
Active Transient	Yes

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

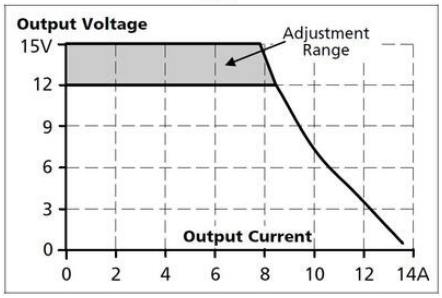


Fig. 14-1 **Output current vs. ambient temp.**

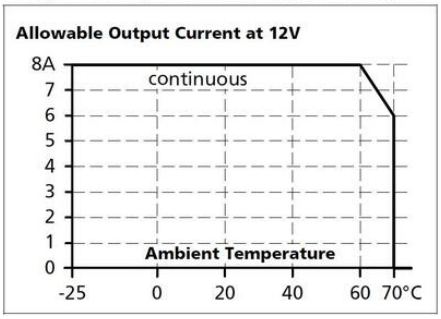


Fig. 8-1 **Efficiency vs. output current at 12V, typ.**

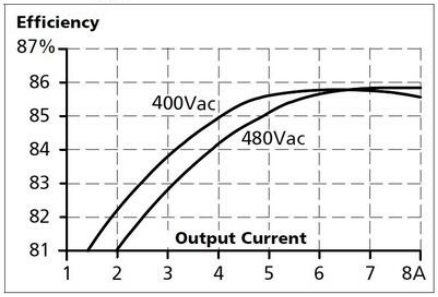


Fig. 8-2 **Losses vs. output current at 12V, typ.**

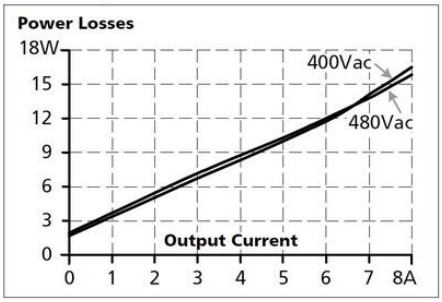
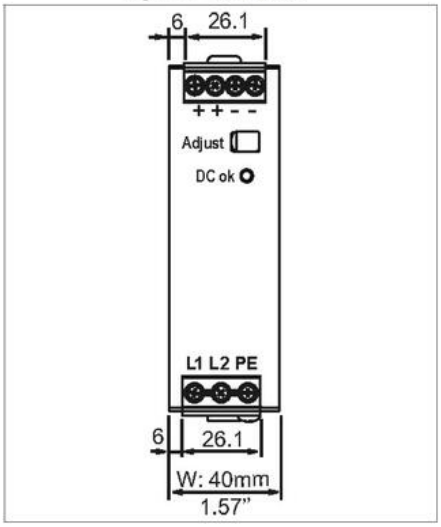
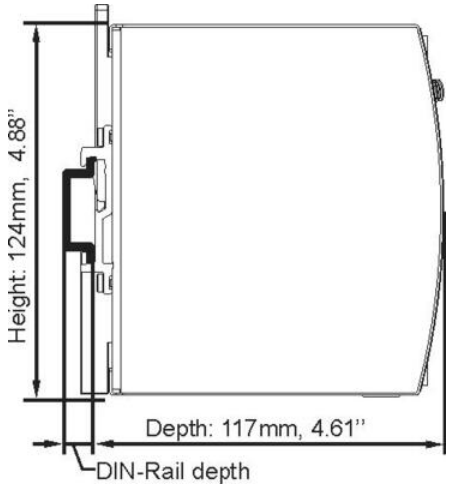


Fig. 10-1 **Front side**

Fig. 21-1 **Front view**





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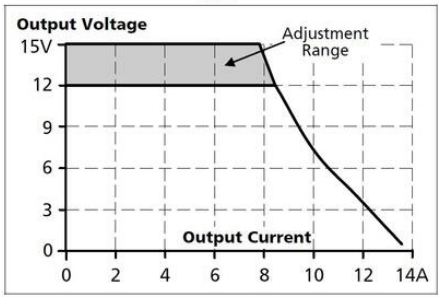

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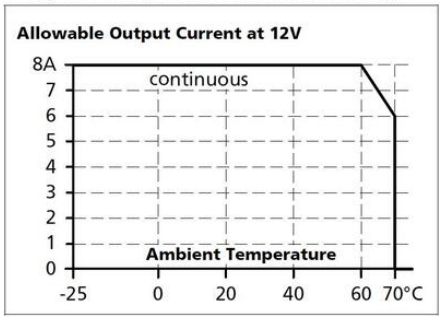

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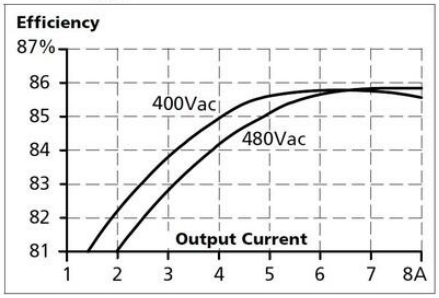

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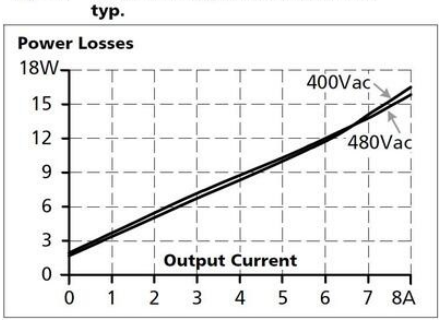

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