

## POWER SUPPLY 3-PHASE, 48 V DC DIMENSION C SERIES

CT10.481  
PSU 3PH 380-480V ac I/P 48V dc 5A 240W O/P

- Output current of 5 A
- Up to 92.8% efficiency
- Integrated primary fuses
- High reliability



### Product description

Puls Dimension C is a series of very high quality, reliability and performance.

CT10 has built primary fuses that make it possible to connect the unit without the need for intermediate fuses up to 32 A (UL) which saves space and money. The efficiency is high over a wide load range, which results in reduced power consumption and longer life regardless of load current. An average efficiency of 50% to 100% load is 92% with a peak value of 92.8%.

The short circuit current is 3 x rated current for 20 ms, which helps secondary fuses. Power boost of 20% enables higher current extraction without voltage drops. This is especially useful during start-ups and to bridge the current peaks in the application. Power can be used continually up to +45°C and short periods from +45°C to +60°C.

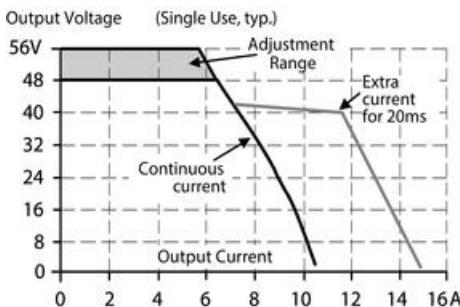
Active transient ensure operation also in very interference rich electrical environment in addition, CT10 active inrush current protection, which means a very low starting current, even if the unit has been in operation for a longer time. Especially useful for redundant/parallel-connected systems.

Power supply connected with 3 stages but can operate on only two phases, taking into account the loading and ambient temperature.

We recommend free space of 40 mm above and 20 mm below the unit, and 5 mm on the sides.

### Power reserve

Output voltage vs. output current,  
typ.



### Specifications

<b>Active Transient</b>	Yes
<b>Approvals</b>	ABS, CB, CE, CSA US, cRUus, cULus, GL
<b>Depth</b>	117
<b>Effect</b>	240
<b>Efficiency At 400 V AC, full load. Typical</b>	92.8
<b>Efficiency At 400 V AC. Typical</b>	92
<b>Height</b>	124
<b>Hold-up time at 400 V AC, full load. Typical.</b>	34
<b>Input voltage AC</b>	380-480 V
<b>Input voltage ac max</b>	576
<b>Input voltage ac min</b>	323
<b>Input voltage dc max</b>	780
<b>Input voltage dc min</b>	450
<b>Input voltage range</b>	Wide-range
<b>Inrush current at 400 V ac typical</b>	4
<b>IP Class</b>	IP20
<b>Lifetime at 400 V ac, full load and +40 ° C</b>	122000
<b>MTBF (IEC 61709) 400 V ac, max load, +40 °C</b>	1051000
<b>Number of phases</b>	3
<b>Output Current</b>	5
<b>Output voltage</b>	48
<b>Output voltage max</b>	56
<b>Output voltage min</b>	48
<b>Power consumption at 400 V ac</b>	0.7
<b>Power Factor at 400 V AC, full load. Typical</b>	0.53
<b>Power Reduction Of 60 To 70 ° C</b>	6
<b>Ripple. max</b>	50
<b>Series</b>	Dimension C
<b>Supply Frequency</b>	50-60 ±6 %
<b>Temperature Range Without Derating From</b>	-25
<b>Temperature Range Without Derating To</b>	60
<b>Weight</b>	0.75
<b>Width</b>	62

Output voltage vs. output current, typ.

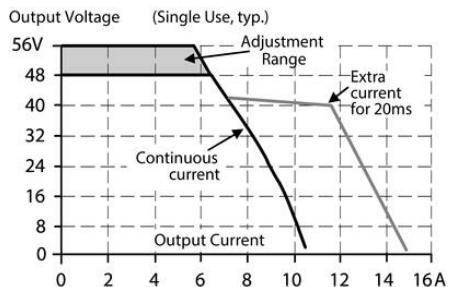


Fig. 14-1 Output current vs. ambient temp.

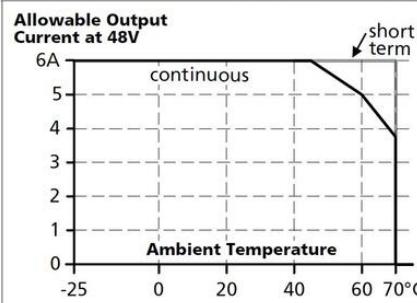


Fig. 8-1 Efficiency vs. output current at 48V, typ., 3-phase operation

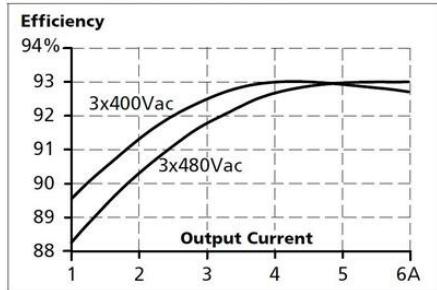
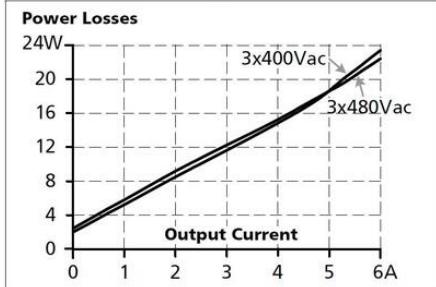


Fig. 8-2 Losses vs. output current at 48V, typ., 3-phase operation



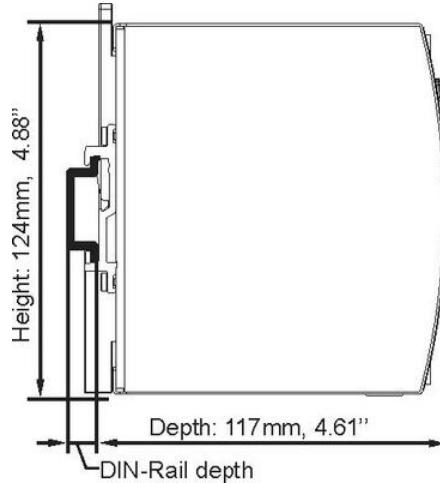
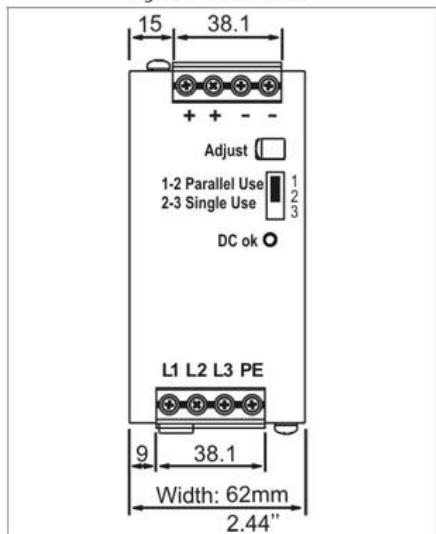
Maximal wire length for a magnetic (fast) tripping \*:

	0.75mm <sup>2</sup>	1.0mm <sup>2</sup>	1.5mm <sup>2</sup>	2.5mm <sup>2</sup>
C-2A	52m	70m	94m	148m
C-3A	33m	42m	64m	97m
C-4A	19m	23m	33m	48m
C-6A	8m	9m	13m	22m
C-8A	-	-	-	-
C-10A	-	-	-	-
B-6A	18m	22m	33m	46m
B-10A	4m	5m	10m	13m

Fig. 10-1 Front side



Fig. 20-1 Front view



Output voltage vs. output current, typ.

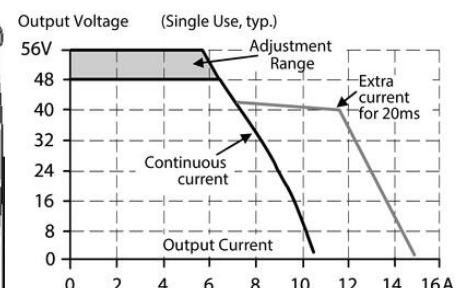


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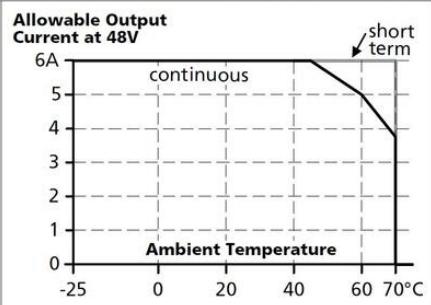


Fig. 8-1 Efficiency vs. output current at 48V, typ., 3-phase operation

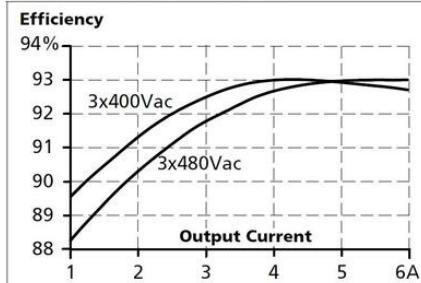
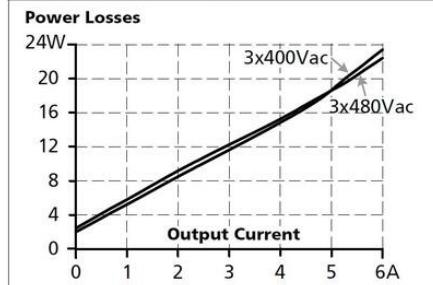


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