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



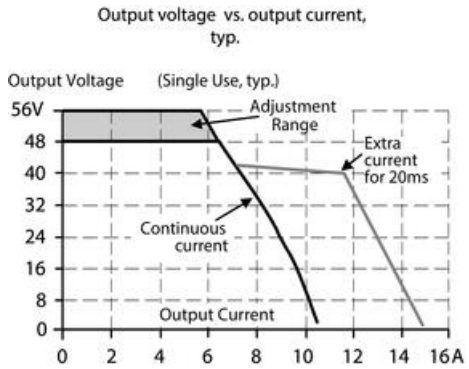
- Output current of 5 A
- Up to 92.8% efficiency
- Integrated primary fuses
- High reliability

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



SPECIFICATIONS

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

Output voltage vs. output current, typ.

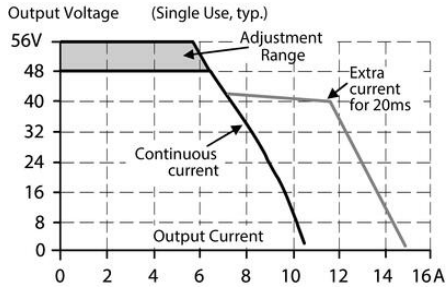


Fig. 14-1 **Output current vs. ambient temp.**

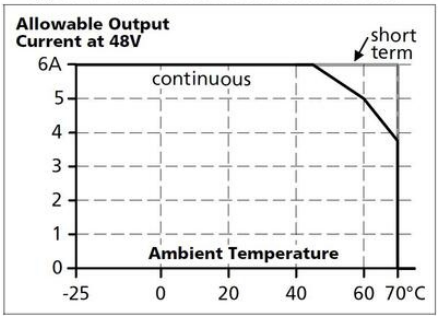


Fig. 8-1 **Efficiency vs. output current at 48V, typ., 3-phase operation**

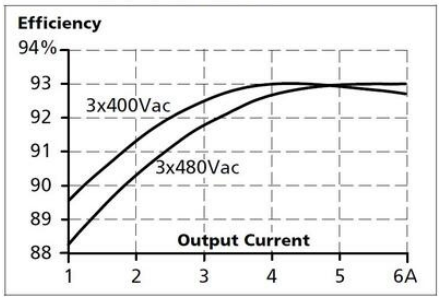
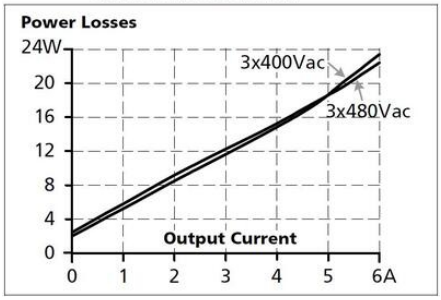


Fig. 8-2 **Losses vs. output current at 48V, typ., 3-phase operation**



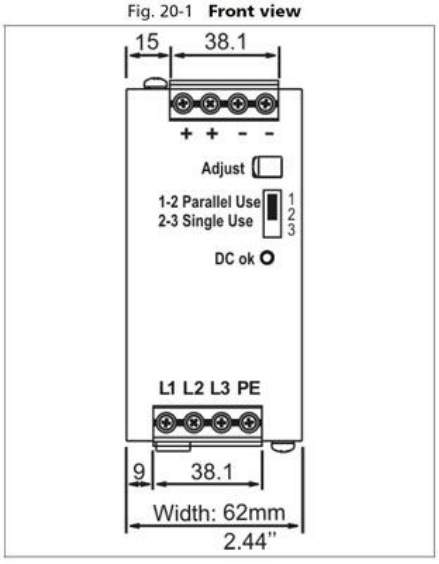
Maximal wire length for a magnetic (fast) tripping *):

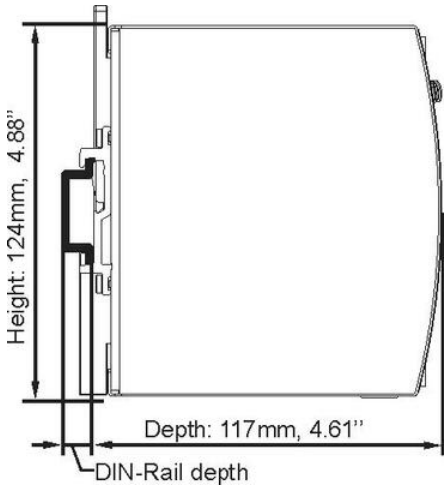
	0.75mm²	1.0mm²	1.5mm²	2.5mm²
C-2A	52m	70m	94m	148m
C-3A	33m	42m	64m	97m
C-4A	19m	23m	33m	48m
C-6A	8m	9m	13m	22m
C-8A	-	-	-	-
C-10A	-	-	-	-
B-6A	18m	22m	33m	46m
B-10A	4m	5m	10m	13m

Fig. 10-1 **Front side**



Fig. 20-1 **Front view**





Output voltage vs. output current, typ.

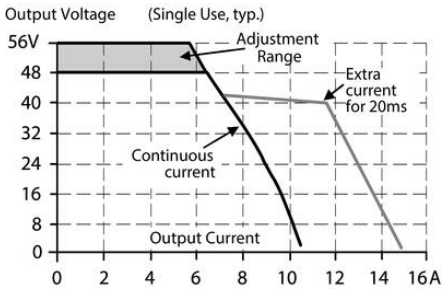


Fig. 14-1 **Output current vs. ambient temp.**

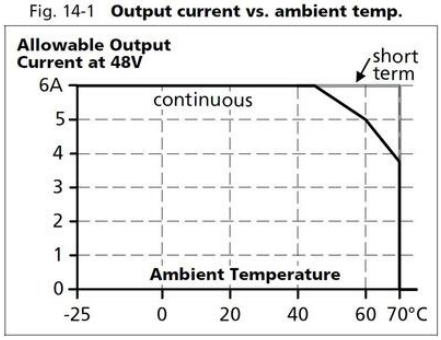


Fig. 8-1 **Efficiency vs. output current at 48V, typ., 3-phase operation**

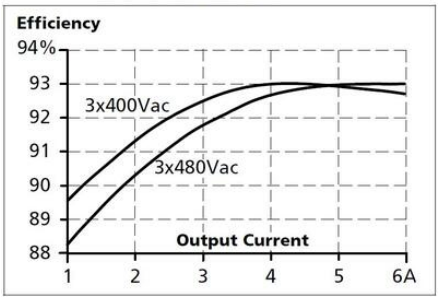
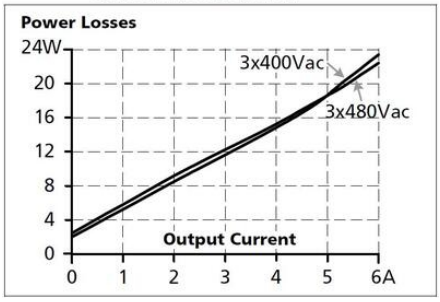


Fig. 8-2 **Losses vs. output current at 48V, typ., 3-phase operation**



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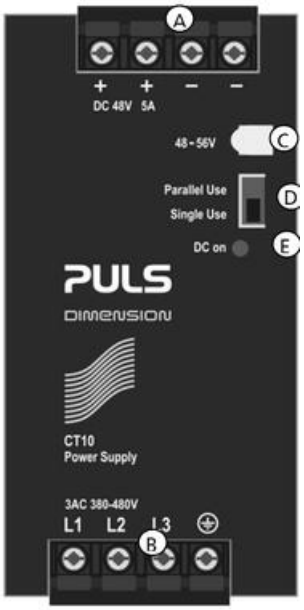

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