



POWER SUPPLY

- AC 380-480V Wide-range Input
- Input Fuses Already Included
- Requires only Two Legs of a 3-Phase System
- Width only 40mm
- Efficiency up to 90.4%
- 20% Output Power Reserves
- Input -Transient Blanking Circuit Included
- Minimal Inrush Current Surge
- Full Power Between -25°C and +60°C
- 3 Year Warranty

GENERAL DESCRIPTION

The Dimension C-Series are cost optimized power supplies without compromising quality, reliability and performance. The C-Series is part of the DIMENSION power supply family. The most outstanding features of CT5.241 are the high efficiency, electronic inrush current limitation, active input transient filter and wide operational temperature range, the small size and other technological design concepts.

The C-Series includes all the essential basic functions. The devices have a power reserve of 20% included, which may even be used continuously at temperatures up to +45°C. The CT5.241 utilizes only 2 legs of a 3-phase system which saves wiring and installation costs. Furthermore, this allows a smaller unit without compromising the size of the terminals. Due to the low power consumption, an unbalancing of the individual phases is not expected.

SHORT-FORM DATA

Output voltage	DC 24V	
Adjustment range	24-28V	
Output current	5 – 4.3A	ambient <60°C
	6 – 5.2A	ambient <45°C
Output power	120W	ambient <60°C
	144W	ambient <45°C
Output ripple	< 50mVpp	20Hz to 20MHz
Input voltage	AC 380-480V	-15%/+20%
Mains frequency	50-60Hz	±6%
AC Input current	0.75 / 0.68A	at 400 / 480Vac
Power factor	0.45 / 0.43	at 400 / 480Vac
AC Inrush current	typ. 4A peak	
Efficiency	90.4 / 90.0%	at 400 / 480Vac
Losses	12.7 / 13.3W	at 400 / 480Vac
Temperature range	-25°C to +70°C	operational
Derating	3W/°C	+60 to +70°C
Hold-up time	typ. 27 / 48ms	at 400 / 480Vac
Dimensions	40x124x117mm	WxHxD

ORDER NUMBERS

Power Supply	CT5.241	24-28V Standard unit
Accessory	ZM1.WALL	Wall mount bracket
	ZM12.SIDE	Side mount bracket
	YRM2.DIODE	Decoupling module
	UF20.241	Buffer unit

MARKINGS



Marine, pending



EMC, LVD