

POWER SUPPLY 1-PHASE, 24 V DC DIMENSION C SERIES, GENERATION 2

CP20.241

PSU 100-240V ac I/P 24V dc 20A 480W O/P

- Output current 20 A
- Efficiency up to 95.6%
- Only 48 mm wide
- 20 % output power reserves



PRODUCT DESCRIPTION

The Dimension CP-Series are cost optimized power supplies without compromising quality, reliability and performance. The most outstanding features of the CP20 series are the high efficiency, electronic inrush current limitation, active PFC, wide operational temperature range and the extraordinary small size.

The CP20.241-C1 is equipped with conformal coated pc-boards preferred for applications in harsh areas.

The CP20.241-S1 is equipped with quick-connect spring-clamp terminals preferred for applications which are exposed to mechanical vibration. The CP20.241-S2 has push-in terminals optimized for easy cabinet wiring.

The CP20.241-V1 is equipped with a remote ON/OFF feature and the CP20.242 features an enhanced DC input voltage range.

The devices have a power reserve of 20% included, which may even be used continuously up to +45°C.

High immunity to transients and power surges as well as low electromagnetic emission, a DC-OK relay contact and a large international approval package makes this unit suitable for nearly every situation.

- AC 100-240V Wide-range Input
- Width only 48mm
- Efficiency up to 95.6%
- Excellent Partial Load Efficiency
- 20% Output Power Reserves
- Easy Fuse Breaking – 3 times nominal current for 12ms
- Safe HiccupPLUS Overload Mode
- Active Power Factor Correction (PFC)
- Minimal Inrush Current Surge
- Full Power Between -25°C and +60°C
- DC-OK Relay Contact
- Current Sharing Feature for Parallel Use
- 3 Year Warranty

SPECIFICATIONS

Input voltage range	Wide-range
Number of phases	1
Input voltage AC	100-240 V
Input voltage ac min	85 V AC

Input voltage ac max	264 V AC
Input voltage DC	110-150 V
Input voltage dc min	88 V DC
Input voltage dc max	180 V DC
Inrush current at 120 V ac typical	10 A
Input current at 230 V ac typical	4,5 A
Power Factor at 120 V AC, full load. Typical	0,99
Power Factor at 230 V AC, full load. Typical	0,98
Supply Frequency	50-60 ±6 %
Power Consumption At 120 V AC	4,26 A
Power Consumption At 230 V AC	2,23 A
Type Power Supply	AC-DC
Output voltage	24 V DC
Output voltage min	24 V DC
Output voltage max	28 V DC
Output Current	20 A
Effect	480 W
Power Reduction Of 60 To 70 ° C	12 W/°C
Ripple. max	50 mV pp
Temperature Range Without Derating From	-25 °C
Temperature Range Without Derating To	60 °C
Efficiency At 120 V AC, full load. Typical	94,2 %
Efficiency At 230 V AC. Typical	95 %
Efficiency At 230 V AC, full load. Typical	95,6 %
Lifetime at 120 V ac, full load and +40 ° C	60000 h
Lifetime at 230 V ac, full load and +40 ° C	94000 h
MTBF (IEC 61709) 230 V AC, Maximum Load, 40 ° C	590000 h
Width	48 mm
Height	124 mm
Depth	127 mm
Weight	0,83 kg

Clamp type	Screw
Series	Dimension C
Approvals	ATEX, CB, CE, CSA US, cULus, IECEx
DC relay output	Yes
Material Protection	Aluminium
Hold-up time at 120 V AC, full load. Typical.	32 ms
Hold-up time at 230 V AC, full load. Typical.	32 ms
IP Class	IP20
Active Transient	Yes



