

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

CP20.241
POWER SUPPLY 24VDC 480W 20A

- 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

Type Power Supply	AC-DC
Input voltage range	Wide-range
Power Consumption At 120 V AC	4,26 A
Input voltage AC	100-240 V

Input voltage ac min	85 V AC
Input voltage dc max	180 V DC
Input voltage DC	110-150 V
Input voltage ac max	264 V AC
Input current at 230 V ac typical	4,5 A
Number of phases	1
Power Consumption At 230 V AC	2,23 A
Supply Frequency	50-60 ±6 %
Inrush current at 120 V ac typical	10 A
Power Factor at 120 V AC, full load. Typical	0,99
Power Factor at 230 V AC, full load. Typical	0,98
Input voltage dc min	88 V DC
Ripple. max	50 mV pp
Output voltage min	24 V DC
Power Reduction Of 60 To 70 ° C	12 W/°C
Temperature Range Without Derating From	-25 °C
Output voltage	24 V DC
Output voltage max	28 V DC
Effect	480 W
Output Current	20 A
Temperature Range Without Derating To	60 °C
Lifetime at 120 V ac, full load and +40 ° C	60000 h
MTBF (IEC 61709) 230 V AC, Maximum Load, 40 ° C	590000 h
Efficiency At 230 V AC, full load. Typical	95,6 %
Efficiency At 230 V AC. Typical	95 %
Lifetime at 230 V ac, full load and +40 ° C	94000 h
Efficiency At 120 V AC, full load. Typical	94,2 %
Weight	0,83 kg
Depth	127 mm
Width	48 mm
Height	124 mm

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

























