POWER SUPPLY 1-PHASE, 24 V DC DIMENSION C SERIES, GENERATION 2, 20A

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.

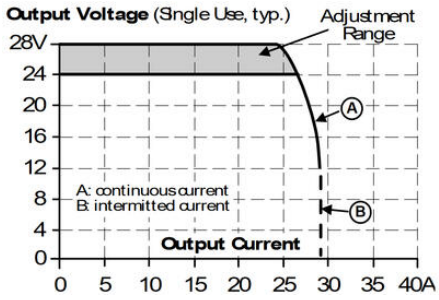
- AC 100-240V Wide-range Input
- Width only 48mm
- Efficiency up to 95.6%
- Excellent Partial Load Efficiency
- 20% Output Power Reserves
- Easy Fuse Breaking – 3 times nominal current for 12ms
- Safe HiccupPLUS Overload Mode
- Active Power Factor Correction (PFC)
- Minimal Inrush Current Surge
- Full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

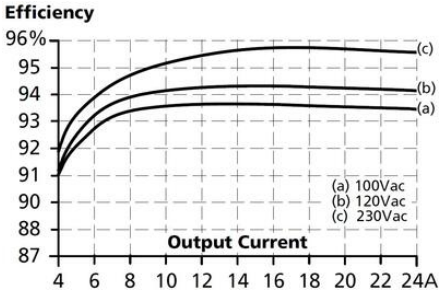
SPECIFICATIONS

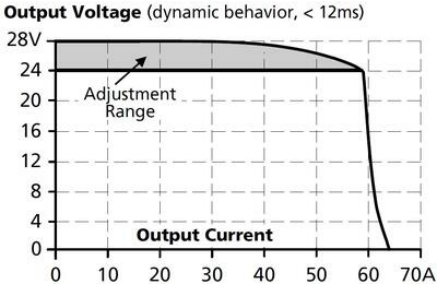
Active Transient	Yes
Approvals	ATEX, CB, CE, CSA US, cULus, IECEx
DC relay output	Yes
Depth	127

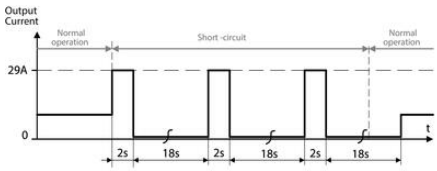
Effect	480
Efficiency At 120 V AC, full load. Typical	94.2
Efficiency At 230 V AC, full load. Typical	95.6
Efficiency At 230 V AC. Typical	95
Height	124
Hold-up time at 120 V AC, full load. Typical.	32
Hold-up time at 230 V AC, full load. Typical.	32
Input current at 230 V ac typical	4.5
Input voltage AC	100-240 V
Input voltage ac max	264
Input voltage ac min	85
Input voltage DC	110-150 V
Input voltage dc max	180
Input voltage dc min	88
Input voltage range	Wide-range
Inrush current at 120 V ac typical	10
IP Class	IP20
Lifetime at 120 V ac, full load and +40 ° C	60000
Lifetime at 230 V ac, full load and +40 ° C	94000
MTBF (IEC 61709) 230 V AC, Maximum Load, 40 ° C	590000
Number of phases	1
Output Current	20
Output voltage	24
Output voltage max	28
Output voltage min	24
Power Consumption At 120 V AC	4.26
Power Consumption At 230 V AC	2.23
Power Factor at 120 V AC, full load. Typical	0.99
Power Factor at 230 V AC, full load. Typical	0.98
Power Reduction Of 60 To 70 ° C	12
Ripple. max	50
Series	Dimension C
Supply Frequency	50-60 ±6 %
Temperature Range Without Derating From	-25

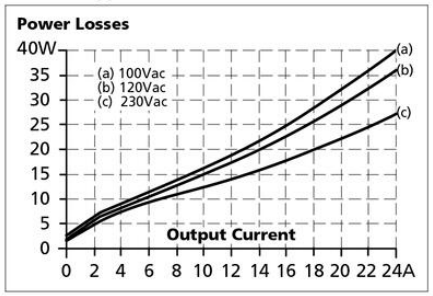
Temperature Range Without Derating To	60
Weight	0.83
Width	48

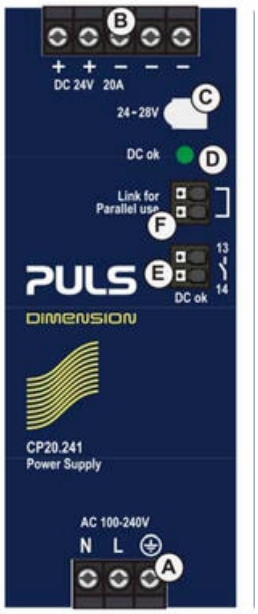


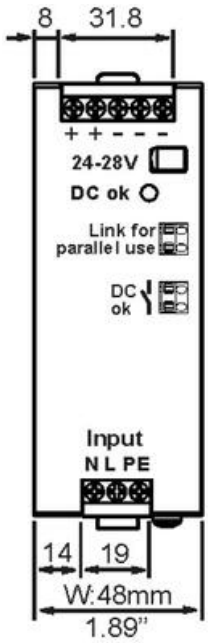


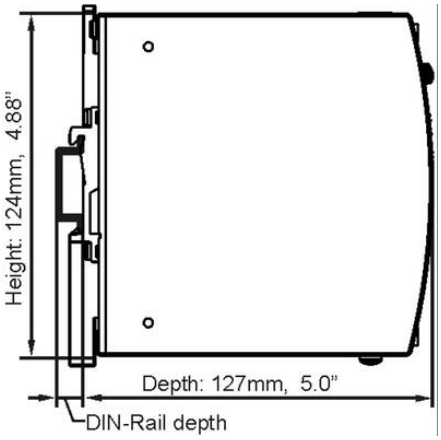


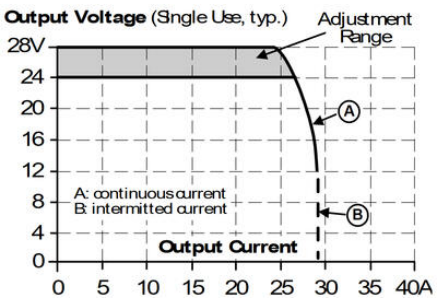




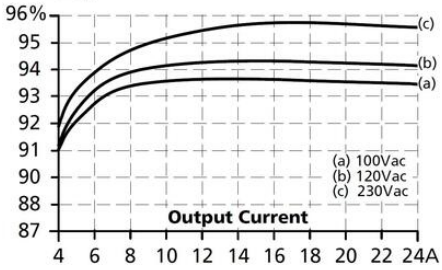




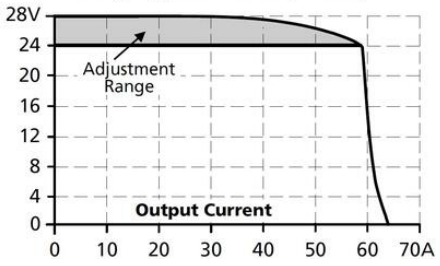


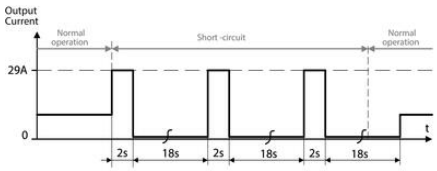


Efficiency



Output Voltage (dynamic behavior, < 12ms)





Power Losses

