

More Precision



PS2020 Power Supply Unit

The PS2020 is a cost optimized power supply unit without compromising quality, reliability and performance. The most important features are the small size, the high efficiency and the wide temperature range. The wide-range-input makes worldwide installation and operation very simple. Defects or system failures caused by wrongly set switches can not occur.

Features:

- 100-240V Wide-Range Input
- Very compact design
- Full Output Power (Between -25°C and +60°C)
- DIN rail mounting



Model	PS 2020	Note
Output voltage	DC 24V	
Adjustment range	24 - 28V	
Output current	2.5A 2.5A	At 24Vdc
Output power	80W	
Output ripple	< 50mVpp	20Hz to 20MHz
Input voltage	AC 100-240V	Wide-range Input
Mains frequency	50-60Hz	±6%
AC Input current	typ. 1.24 / 0.68A	At 120 / 230Vac
Power factor	typ. 0.61 / 0.56	At 120 / 230Vac
AC Inrush current	typ. 23 / 45A	At 120 / 230Vac
DC Input	110-375Vdc 88-110Vdc	Full output current Output current max. 2.5A
Efficiency	typ. 88.0 / 89.8%	At 120 / 230Vac
Losses	typ. 11.1 / 9.1W	At 120 / 230Vac
Temperature range	-25°C to +70°C	Operational
Derating	1.8W/°C	+60 to +70°C
Hold-up time	typ. 29 / 120ms	At 120 / 230Vac
Dimensions	32x124x102mm	WxHxD
Storage temperature	-40 to +85°C (-40°F to 185°F)	Storage and transportation
Humidity	5 to 95% r.H.	IEC 60068-2-30 Do not energize while condensation is present
Vibration sinusoidal	2-17.8Hz: ±1.6mm; 17.8-500Hz: 2g 2 hours / axis	IEC 60068-2-6
Shock	30g 6ms, 20g 11ms 3 bumps / direction, 18 bumps in total	IEC 60068-2-27
Weight	430g / 0.95lb	
DIN-Rail	Use 35mm DIN-rails according to EN 60715 or EN 50022 with a height of 7.5 or 15mm. The DIN-rail height must be added to the depth (102mm) to calculate the total required installation depth.	

PS2020 Dimensions and Accessories

PS2020 (Dimensions in mm, not to scale)

Fig. 23-1 Front view

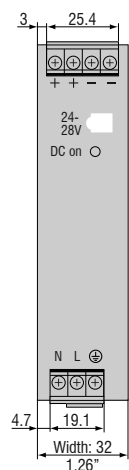
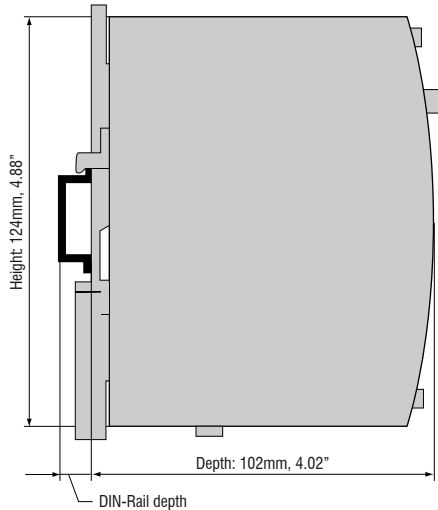
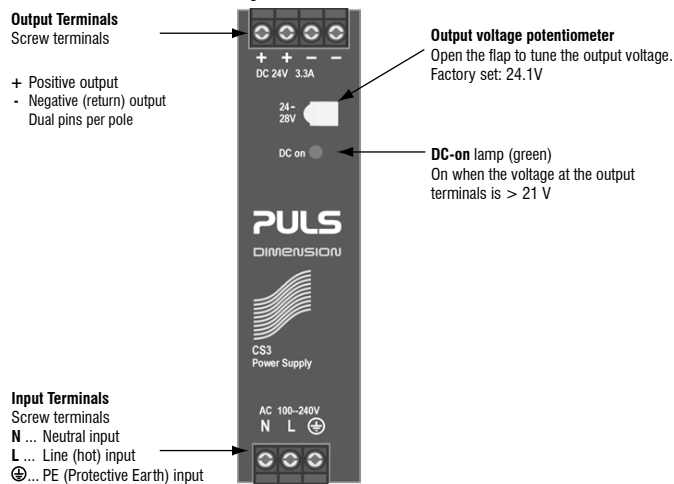


Fig. 23-2 Side view



Front side and user elements

Fig. 13-1 Front side



Markings



18WM
LISTED
IND. CONT. EQ.



UL 60950-1,
NEC Class 2



182790
pending



Marine, pending



EMC, LVD