



12 V



-40° TO +71°



DIN RAIL



The PWR-1233DR is a high quality, low noise switching mode power supply ideally suited to the entire industrial product range that require 12 VDC power input. These rugged units are DIN rail mountable, providing an ideal mounting configuration to a mating industrial switch or any product using our range of DIN rail mounting adapters. The wide ambient operating temperature range permits installation in most out of plant and unconditioned environments, such as those found in intelligent transportation systems or factory automation/industrial control applications. Unconditional line and load protection is provided.

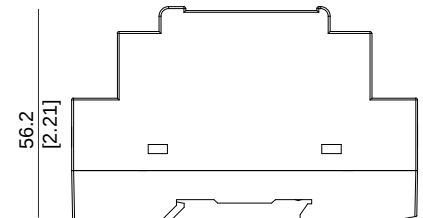
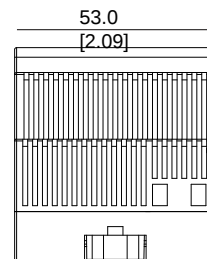
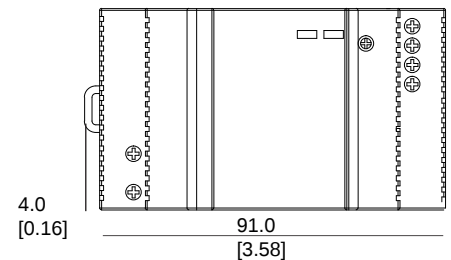
FEATURES

- › Universal AC input: 90 to 264 VAC, 47-63Hz
- › Mounts on standard 7.5 or 15 mm DIN-rail
- › Adjustable output voltage range support
- › High operating efficiency; up to 80%
- › Small package for limited space installations
- › Natural convection cooling; no troublesome fans
- › Wide operating temperature range: -40° to +71° C

APPLICATIONS

- › Power Supplies for Industrial Products

DIMENSIONS



UNIT:
mm[inch]

Low Power Consumption

SPECIFICATIONS

All Specifications Typical at Nominal Line, Full Load, 25°C Unless Otherwise Noted

Power Input

Rated Input Voltage	90 to 264 VAC or 120 to 375 VDC
Input Current	115 / 230 VAC, 680 / 410 mA
Line Frequency	47 to 63 Hz
Inrush @current	115 / 230 VAC, 25 / 50 A
Power Dissipation	230 VAC, 7.3 W

Power Output

Voltage Accuracy	+1%
Minimum Load	0%
Line Regulation	±1%
Voltage Trim Range	12 to 14 VDC
Hold up time	115 / 230 VAC, 20 / 100 ms
DC ON / LOW indicator threshold	12 V: 9 to 10.8 VDC
Output Wattage	33 Watts
Output Voltage	+ 12 VDC
Output Current	2750 mA
Efficiency min/typ	80% / 80%

General

Isolation Resistance	Input-Output, @ 500VDC, 100 MΩ
Derating	+56° to 71°C, max 2.5% / °C
Cooling	Normal convection (Recommend all sides 25mm free space)

Control and Protection

Input fuse	250 VAC internal T2A
Internal Surge Protection	IEC 61000-4-5
Rated Over Load Protection	110 - 150 %
Over voltage protection	Auto Recovery 12 V: 15 to 16.5 VDC
Degree of protection	IP20

Electrical & Mechanical

Indicating LEDs	DC ON: At Start Up (Green) DC LOW: After Start Up (Red)
Size	3.58 × 2.09 × 2.22 in (9.1 × 5.3 × 5.65 cm)
Weight	0.42 lb / 190 g

Environmental

MTBF	>500,000 hours @ 40°C (104°F)
Operating Temp	-40° C to +71° C (-40°F to 160°F)
Storage Temp	-40° C to +85° C (-40°F to 185°F)
Relative Humidity	20% to 90% (non-condensing)

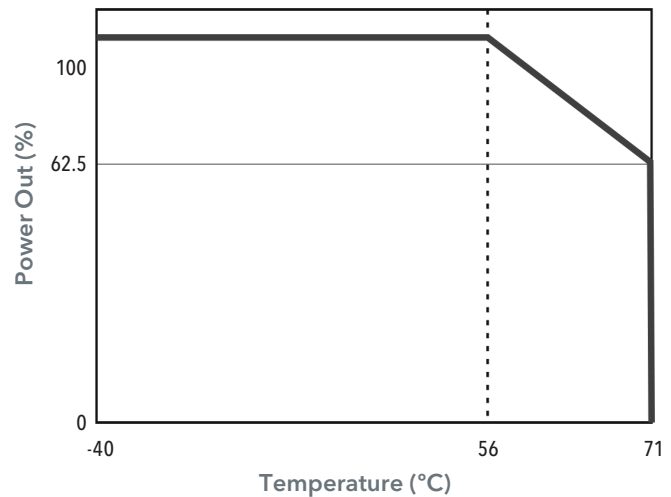
Approvals & EMC Compliance

UL / cUL	UL 508 Listed UL 60950-I, UL 1310 Class 2 Power (24LS model only) recognized ISA 12.12.01 (Class I, Div 2, Groups A, B, C, & D) EN 60950-I, CB scheme EN 61000-6-3, EN 55022 Class B, EN 61000-3-2, EN 61000-3-3, EN 61000-6-2, EN 55024, EN 61000-4-2 Level 4, EN 61000-4-3 Level 3, EN 61000-4-4 Level 4, EN 61000-4-5 L-N Level 3, EN 61000-4-6 Level 3, EN 61000-4-8 Level 4, EN 61000-4-11, ENV 50204 Level 2, EN 61204-3
TUV	Meets IEC 60068-2-6
CE	Rail Mount: 10 - 500 Hz, 2G, 60 min for each Axis Meets IEC 60068-2-27 15G, 11ms, 3 Axis, 6 Faces, 3 times for each Face
Vibration	
Shock	

PIN ASSIGNMENTS

PIN	Designation	Description
1	OUT	- Negative output terminal
2		- Negative output terminal
3		+ Positive output terminal
4		+ Positive output terminal
5	IN	L Input terminals (phase conductor, no polarity at DC input)
6		N Input terminals (neutral conductor, no polarity at DC input)
	OTHER	Vout ADJ. Trimmer-potentiometer for Vout adjustment
		DC ON Operation indicator LED
		DC LO DC Low indicator LED

DERATING CURVES



Part Number	Input Voltage	Output Wattage	Output Voltage	Output Current	Eff. (min)	Eff. (typ)
PWR-DR12033	90 to 264 VAC	33 Watts	+ 12 VDC	2750 mA	80%	80%

In a continuing effort to improve and advance technology, product specifications are subject to change without notice.