

PW-3090

Power Conditioner

Features

- 1000 VDC isolation
- Flexible DIN-rail mounting

Introduction

The PW-3090 series is an efficient (83%) DC-to-DC power module with 1000 VDC isolated protection. It has non-regular DC input (18 ~ 36 VDC) and stable DC output (5 VDC, 12 VDC, 24 VDC, 5 VDC, 15 VDC). Using it, your devices can work with stable power source and against harmful effects in the operating environment.

Applications

- Power isolation (DC-to-DC converter)

Specifications

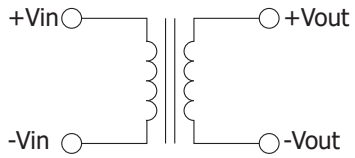
Model Name	PW-3090-24S-R	PW-3090-15D-R	PW-3090-12S-R	PW-3090-5S-R	PW-3090-5D-R
Input					
Voltage Range	18 ~ 36 VDC (non-regulated)				
Polar	Unipolar	Bipolar	Unipolar	Unipolar	Bipolar
Output					
Ripple & Noise	100 mVp-p max.				
Line Regulation	±0.5% max.				
DC Voltage	+24 VDC @ 400 mA (max.)	±15 VDC @ 300 mA (max.)	+12 VDC @ 800 mA (max.)	+5 VDC @ 2000 mA (max.)	±5 VDC @ 1000 mA (max.)
Accuracy	±2%				
Isolation	1000 VDC				
Efficiency	83% max.				
Short Circuit Protection	Yes				
Mechanical					
Dimensions (W x L x H)	25 mm x 114 mm x 70 mm				
Environment					
Operating Temperature	-25 ~ +70 °C				
Storage Temperature	-30 ~ +85 °C				
Humidity	5 ~ 95% RH, Non-condensing				

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Internal I/O Structure

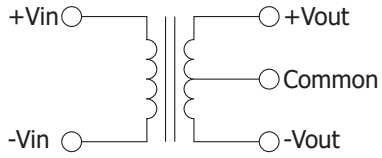
PW-3090-xxS

Single Output



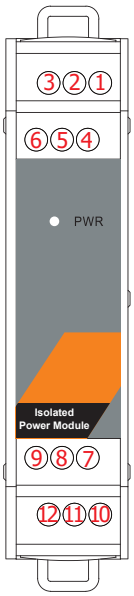
PW-3090-xxD

Dual Output



Simplified Schematic

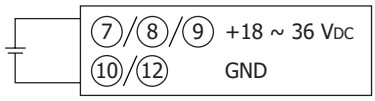
PIN Assignments



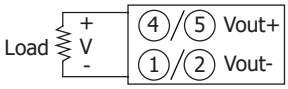
Voltage	Pin	Name
Output	1	-Vout
	2	-Vout
	3	Common
	4	+Vout
	5	+Vout
	6	Common
Input	7	+18 ~ 36 VDC
	8	+18 ~ 36 VDC
	9	+18 ~ 36 VDC
	10	GND
	11	FGND
	12	GND

Wire Connections

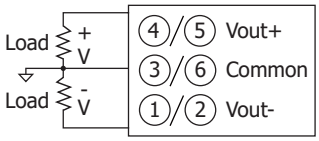
Power Input



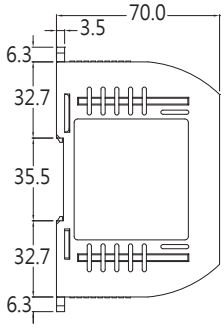
Power Output (Single)



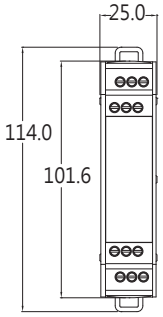
Power Output (Dual)



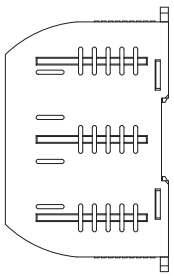
Dimensions (Units: mm)



Left View



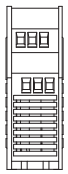
Front View



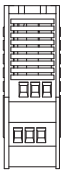
Right View



Rear View



Top View



Bottom View

Ordering Information

PW-3090-24S-R CR	Power Conditioner, output voltage +24 VDC @ 400 mA (max.) (RoHS)
PW-3090-15D-R CR	Power Conditioner, output voltage ±15 VDC @ 300 mA (max.) (RoHS)
PW-3090-12S-R CR	Power Conditioner, output voltage +12 VDC @ 800 mA (max.) (RoHS)
PW-3090-5S-R CR	Power Conditioner, output voltage +5 VDC @ 2000 mA (max.) (RoHS)
PW-3090-5D-R CR	Power Conditioner, output voltage ±5 VDC @ 1000 mA (max.) (RoHS)

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