

DC-DC Switching Regulator



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PSR24 Series

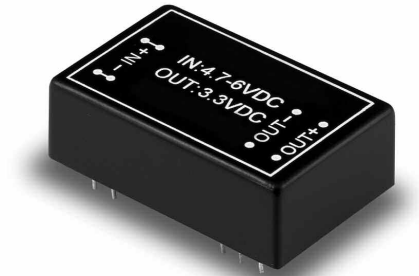
6 - 24 Watt Wide Input

PCB Mounting

Single Outputs

Features

- 6 - 24 W Non-Isolated Output
- Efficiency to 94%
- Input LC Filter
- 24-Pin DIP Package
- Regulated Outputs



MODEL	INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT	INPUT CURRENT		%EFF
				NO LOAD	FULL LOAD	
PSR24-05-33	4.7-6 VDC	3.3 VDC	2000 mA	15 mA	1553 mA	85
PSR24-12-33	9-32 VDC	3.3 VDC	2000 mA	15 mA	655 mA	84
PSR24-12-05	9-32 VDC	5 VDC	2000 mA	15 mA	947 mA	88
PSR24-12-12	9-32 VDC	12 VDC	830 mA	15 mA	954 mA	87
PSR24-12-15	9-32 VDC	15 VDC	666 mA	15 mA	957 mA	87
PSR24-24-12	16-32 VDC	12 VDC	1600 mA	15 mA	860 mA	93
PSR24-24-15	19-32 VDC	15 VDC	1600 mA	15 mA	1064 mA	94

NOTE: 1. Nominal Input Voltage 5, 12 or 24 VDC

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Electrical Specification

INPUT

Input Voltage Range	5.0V	4.7-6V
	12V	9-32V
	24V	16-32V
	24V (15V Output)	19-32V

Input Filter LC Type

OUTPUT

Voltage Accuracy		±2.0% max.
Temperature Coefficient		±0.05% max/°C
Ripple & Noise, 20MHz BW	3.3V/5V	100mV p-p max.
	12V/15V	1% p-p max.

Over Current Protection 120%-150%

Line Regulation¹, ±0.5% max.

Load Regulation², ±0.5% max.

GENERAL

Efficiency See Table

Switching Frequency 150KHz, Typ.

Isolation Voltage (Input/Output) No Isolation

Operating Temperature Range -25°C to +71°C

Case Temperature 100°C max.

Cooling Free-Air Convection

Storage Temperature Range -40°C to +100°C

Dimensions 1.25 x 0.8 x 0.4 inches
(31.8 x 20.3 x 10.2 mm)

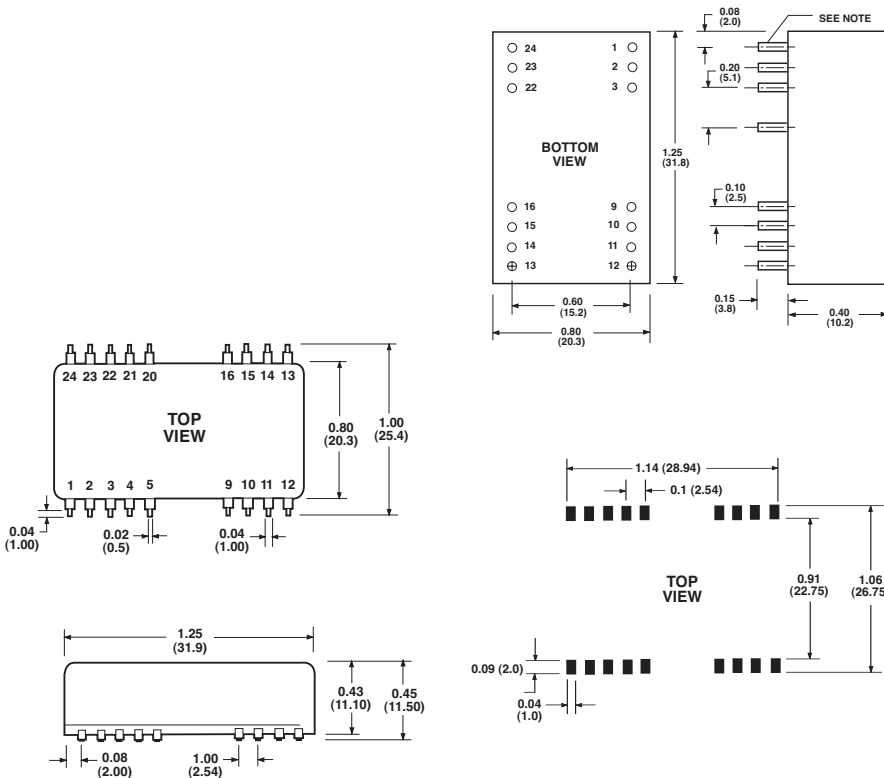
CASE MATERIAL

Case Material Black Coated Copper with Non-Conductive Base

NOTE:

1. Measured From High Line to Low Line 2. Measured From Full Load to 10% Load

NOTE: Pin Size is 0.02" Inch(0.5mm) DIA
All Dimensions in Inches (mm)
Tolerance .xx =±.02, .xxx=±.010



Pin Connection

Pin	Function	Pin	Function
1.	NP	24.	NP
2.	-V Input	23.	+V Input
3.	-V Input	22.	+V Input
9.	-V Output	16.	-V Output
10.	NC	15.	NC
11.	+V Output	14.	+V Output
12.	NP	13.	NP

*NP - NO PIN

*NC - NO CONNECTION WITH PIN

Pin Connection

Pin	Function	Pin	Function
1.	NC	13.	NC
2.	-V Input	14.	+V Output
3.	-V Input	15.	NC
4.	NC	16.	-V Output
5.	NC	20.	NC
9.	-V Output	21.	NC
10.	NC	22.	+V Input
11.	+V Output	23.	+V Input
12.	NC	24.	NC

*NC - NO CONNECTION WITH PIN

All Specifications Typical At Nominal Line, Full Load and 25°C Unless Otherwise Noted.

Powersolve Electronics Ltd. Units 8A, Arnhem Road, Newbury, RG14 5RU. England

Tel:01635 521858 Fax: 01635 523771 Email: sales@powersolve.co.uk