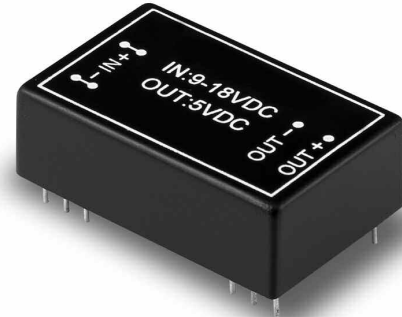


DC-DC Converters



www.powersolve.co.uk

PS8 Series
7.5 Watt Wide Input
PCB Mounting
Single & Dual Outputs



Features

- 7.5W Isolated Output
- Efficiency to 83%
- Regulated Outputs
- Continuous Short Circuit Protection
- 24-Pin DIP Package
- 2 : 1 Input Range
- Pi Input Filter
- SMD Mounting Versions Available
- Consult Sales Office for Details

MODEL	INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT	INPUT CURRENT		%EFF
				NO LOAD	FULL LOAD	
PS8-12-33S	9-18 VDC	3.3 VDC	1500 mA	25 mA	557 mA	74
PS8-12-05S		5 VDC	1500 mA	25 mA	801 mA	78
PS8-12-12S		12 VDC	625 mA	25 mA	762 mA	82
PS8-12-15S	9-18 VDC	15 VDC	500 mA	25 mA	762 mA	82
PS8-12-05D		+5 VDC	+750 mA	30 mA	791 mA	79
PS8-12-12D		+12 VDC	+310 mA	30 mA	753 mA	83
PS8-12-15D	9-18 VDC	+15 VDC	+250 mA	30 mA	753 mA	83
PS8-24-33S		3.3 VDC	1500 mA	20 mA	271 mA	76
PS8-24-05S		5 VDC	1500 mA	20 mA	396 mA	79
PS8-24-12S	18-36 VDC	12 VDC	625 mA	20 mA	381 mA	82
PS8-24-15S		15 VDC	500 mA	20 mA	381 mA	82
PS8-24-05D		+5 VDC	+750 mA	25 mA	386 mA	81
PS8-24-12D	18-36 VDC	+12 VDC	+310 mA	25 mA	377 mA	83
PS8-24-15D		+15 VDC	+250 mA	25 mA	377 mA	83
PS8-48-33S		3.3 VDC	1500 mA	10 mA	136 mA	76
PS8-48-05S	36-72 VDC	5 VDC	1500 mA	10 mA	195 mA	80
PS8-48-12S		12 VDC	625 mA	10 mA	190 mA	82
PS8-48-15S		15 VDC	500 mA	10 mA	190 mA	82
PS8-48-05D	36-72 VDC	+5 VDC	+750 mA	15 mA	193 mA	81
PS8-48-12D		+12 VDC	+310 mA	15 mA	188 mA	83
PS8-48-15D		+15 VDC	+250 mA	15 mA	188 mA	83

NOTE: 1. Nominal Input Voltage 12, 24 or 48 VDC

Electrical Specification

INPUT

Input Voltage Range	12V	9-18V
	24V	18-36V
	48V	36-72V
Input Filter		Pi Type

OUTPUT

Voltage Accuracy		±2.0% max.
Voltage Balance (Dual)		±1.0% max.
Temperature Coefficient		+0.05% max.
Ripple & Noise, 20MHz BW,		100mV p-p max.
Short Circuit Protection		Continuous
Line Regulation ¹ , Single/Dual		±0.2% max.
Load Regulation ² , Single		±0.5% max.
Dual		±1.0% max.

GENERAL

Efficiency		See Table
Isolation Voltage		1500VDC min.
Isolation Resistance		10 ⁹ ohm min.
Switching Frequency		300KHz, Typ.
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)

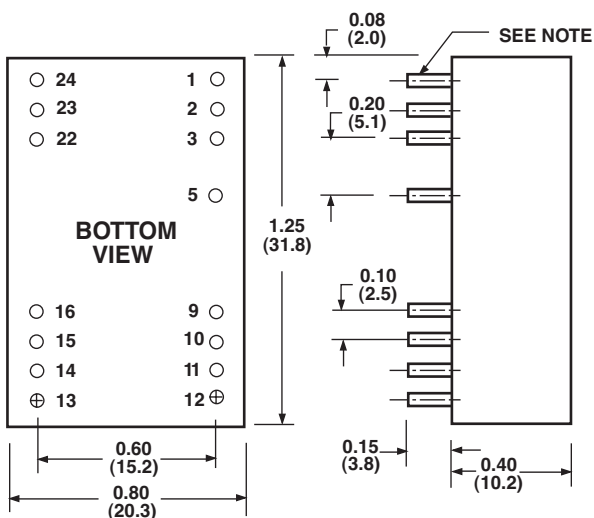
CASE MATERIAL

Case Material	Black Coated Copper with Non-Conductive Base
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NOTE:

1. Measured From High Line to Low Line
2. Measured From Full Load to 10% Load
3. Measured From Full Load to 1/4 Load

NOTE: Pin Size is 0.020 inch (0.5mm) DIA
All Dimensions in Inches (mm)
Tolerance .xx =±.02, .xxx=±.010



Pin Connection

Pin	1500 VDC	
	Single Output	Dual Output
1	NP	NP
2	-V Input	-V Input
3	-V Input	-V Input
5	NP	NP
9	NC	Common
10	NC	NC
11	NC	-V Output
12	NP	NP
13	NP	NP
14	+V Output	+V Output
15	NC	NC
16	-V Output	Common
22	+V Input	+V Input
23	+V Input	+V Input
24	NP	NP

*NP-NO PIN

*NC - NO CONNECTION WITH PIN

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