

DC-DC Converters



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PS10 Series
10 Watt Wide Input
PCB Mounting
Single & Dual Outputs



Features

- 10W Isolated Output
- Efficiency to 82%
- 4:1 Input Range
- Pi Input Filter
- Continuous Short Circuit Protection
- Meets EN55022 Class A, Conducted
- Industry Standard Pin Out

MODEL	INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT	INPUT CURRENT		%EFF
				NO LOAD	FULL LOAD	
PS10-24-33S		3.3 VDC	2000 mA	15 mA	362 mA	76
PS10-24-05S		5 VDC	2000 mA	15 mA	534 mA	78
PS10-24-12S		12 VDC	830 mA	15 mA	520 mA	80
PS10-24-15S	9-36 VDC	15 VDC	666 mA	15 mA	520 mA	80
PS10-24-05D		+5 VDC	+1000 mA	20 mA	520 mA	80
PS10-24-12D		+12 VDC	+415 mA	20 mA	520 mA	80
PS10-24-15D		+15 VDC	+333 mA	20 mA	520 mA	80
PS10-48-33S		3.3 VDC	2000 mA	10 mA	181 mA	76
PS10-48-05S		5 VDC	2000 mA	10 mA	260 mA	80
PS10-48-12S		12 VDC	830 mA	10 mA	257 mA	81
PS10-48-15S	18-72 VDC	15 VDC	666 mA	10 mA	257 mA	81
PS10-48-05D		+5 VDC	+1000 mA	15 mA	253 mA	82
PS10-48-12D		+12 VDC	+415 mA	15 mA	257 mA	81
PS10-48-15D		+15 VDC	+333 mA	15 mA	253 mA	82

NOTE: 1. Nominal Input Voltage 24 or 48 VDC

Electrical Specification

INPUT

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

OUTPUT

Voltage Accuracy Single Output		±1.0% max.
Voltage Accuracy Dual + Output		±1.0% max.
Voltage Accuracy Dual - Output		±1.0% max.
Voltage Balance Dual Output at Full Load		±1.0% max.
Transient Response		
Single 25% Step Load Change		<500µsec.
Dual FL-1/2±1% Error Band		<500µsec.
Ripple & Noise, 20MHz BW,		75mV p-p max.
Temperature Coefficient		±0.02% max.
Short Circuit Protection		Continuous
Line Regulation ¹ , Single/Dual		+0.2% max.
Load Regulation ² , Single/Dual		±1.0% max.

GENERAL

Efficiency		See Table
Isolation Voltage		500VDC
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
EMI/RFI		Six Sided Continuous Shield
Dimensions		2 x 1 x 0.4 inches (50.8 x 25.4 x 10.2 mm)

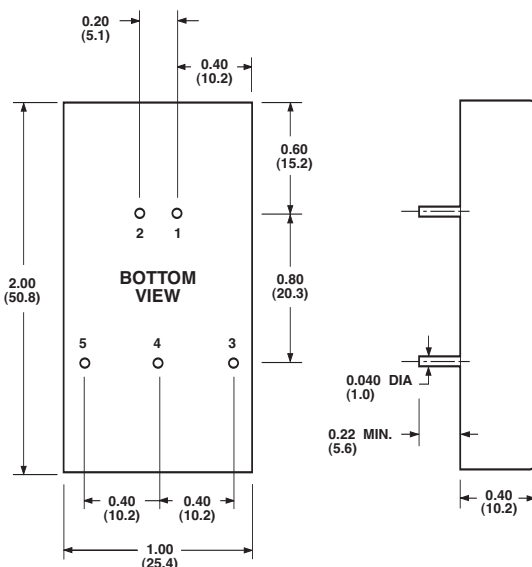
CASE MATERIAL

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 1/4 Load

All Dimensions in Inches (mm)
Tolerance .xx = ±.04, .xxx = ±.010



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

Pin Connection

Pin	Function
1	+ Input
2	- Input
3	+ Output
4	Common/NP
5	- Output

*NP-NO PIN ON SINGLE OUTPUT