

DC-DC Converters



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PSW3 Series 3 Watt Wide Input PCB Mounting Single & Dual Outputs



Features

- 3W Isolated Output
- 24-Pin DIP Package
- Efficiency to 80%
- Continuous Short Circuit Protection
- 4 : 1 Input Range
- Regulated Outputs
- 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	
PSW3-24-33S		3.3 VDC	600 mA	15 mA	117 mA	70
PSW3-24-05S		5 VDC	600 mA	15 mA	174 mA	72
PSW3-24-12S		12 VDC	250 mA	15 mA	165 mA	76
PSW3-24-15S	9-36VDC	15 VDC	200 mA	15 mA	165 mA	76
PSW3-24-05D		+5 VDC	±300 mA	25 mA	179 mA	70
PSW3-24-12D		+12 VDC	±125 mA	25 mA	174 mA	72
PSW3-24-15D		+15 VDC	±100 mA	25 mA	174 mA	72
PSW3-48-33S		3.3 VDC	600 mA	7.5 mA	58 mA	70
PSW3-48-05S		5 VDC	600 mA	7.5 mA	87 mA	72
PSW3-48-12S		12 VDC	250 mA	7.5 mA	78 mA	80
PSW3-48-15S	18-72VDC	15 VDC	200 mA	7.5 mA	78 mA	80
PSW3-48-05D		+5 VDC	±300 mA	12 mA	88 mA	71
PSW3-48-12D		+12 VDC	±125 mA	12 mA	87 mA	72
PSW3-48-15D		+15 VDC	±100 mA	12 mA	87 mA	72

NOTE: 1. Nominal Input Voltage 24 or 48 VDC

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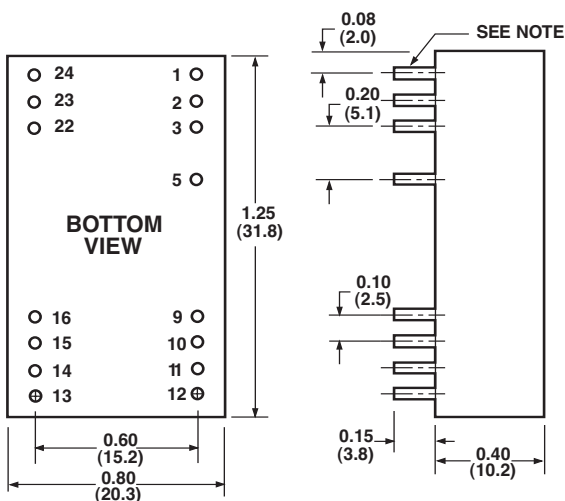
Electrical Specification

INPUT		
Input Voltage Range	24V	9-36V
	48V	18-72V
Input Filter		Pi Type
OUTPUT		
Voltage Accuracy		±2.0% max.
Voltage Balance (Dual)		±1.0% max.
Temperature Coefficient		±0.05%/°C max.
Ripple and Noise, 20MHz BW, Single & ±5V		100mV p-p max.
	Dual	1% p-p max.
Short Circuit Protection		Continuous
Line Regulation ¹ , Single/Dual		±0.5% max.
Load Regulation, Single ²		±0.5% max.
	Dual ³	±1% max.
GENERAL		
Efficiency		See Table
Isolation Resistance		10 ⁹ ohms min.
Switching Frequency		100kHz, Typ.
Operating Temperature Range		-25°C to +71°C
Case Temperature (Plastic Case)		95°C max.
	(Copper Case)	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)
ISOLATION VOLTAGE		
500 VDC min.		Standard Models
3K VDC min ⁴		Suffix "H" Models
CASE MATERIAL		
Standard Models		Non-Conductive Black Plastic
Suffix "M" Models ⁵		Black Coated Copper with Non-Conductive Base

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
4. Non-Conductive Black Plastic Only
5. Suffix "HM" 1.5KVDC Instead of 3KVDC Isolation

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



Pin Connection

500 VDC			1.5K & 3K VDC		
Pin	Single Output	Dual Output	Pin	Single Output	Dual Output
1	+V Input	+V Input	1	NP	NP
2	NC	-V Output	2	-V Input	-V Input
3	NC	Common	3	-V Input	-V Input
5	NP	NP	5	NP	NP
9	NP	NP	9	NC	Common
10	-V Output	Common	10	NC	NC
11	+V Output	+V Output	11	NC	-V Output
12	-V Input	-V Input	12	NP	NP
13	-V Input	-V Input	13	NP	NP
14	+V Output	+V Output	14	+V Output	+V Output
15	-V Output	Common	15	NC	NC
16	NP	NP	16	-V Output	Common
22	NC	Common	22	+V Input	+V Input
23	NC	-V Output	23	+V Input	+V Input
24	+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.