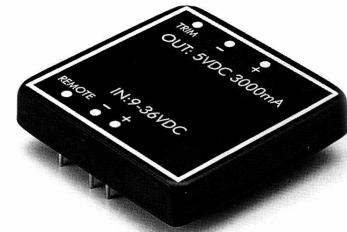


DC-DC Converters



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PSW15 Series
 15 Watt Wide Input
 PCB Mounting
 Single, Dual & Triple Outputs



Features

- 15W Isolated Output
- 4:1 Input Range
- Six-Sided Shield
- Remote ON/OFF Control
- Efficiency to 82%
- Industry Standard Pin Out

MODEL	INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT	INPUT CURRENT		%EFF
				NO LOAD	FULL LOAD	
PSW15-24-33S		3.3 VDC	3000 mA	15 mA	545 mA	76
PSW15-24-05S		5 VDC	3000 mA	15 mA	810 mA	77
PSW15-24-12S		12 VDC	1250 mA	15 mA	780 mA	80
PSW15-24-15S		15 VDC	1000 mA	15 mA	780 mA	80
PSW15-24-05D	9-36 VDC	±05 VDC	±1500 mA	20 mA	810 mA	77
PSW15-24-12D		±12 VDC	±625 mA	20 mA	780 mA	80
PSW15-24-15D		±15 VDC	±500 mA	20 mA	780 mA	80
PSW15-24-24D		±24 VDC	±313 mA	20 mA	780 mA	80
PSW15-24-512D		5/±12 VDC	1500/±310 mA	20 mA	780 mA	80
PSW15-24-515D		5/±15 VDC	1500/±250 mA	20 mA	780 mA	80
PSW15-48-33S		3.3 VDC	3000 mA	10 mA	270 mA	76
PSW15-48-05S		5 VDC	3000 mA	10 mA	410 mA	77
PSW15-48-12S		12 VDC	1250 mA	10 mA	390 mA	80
PSW15-48-15S		15 VDC	1000 mA	10 mA	390 mA	80
PSW15-24-05D	18-72 VDC	±05 VDC	±1500 mA	15 mA	400 mA	79
PSW15-48-12D		±12 VDC	±625 mA	15 mA	380 mA	82
PSW15-48-15D		±15 VDC	±500 mA	15 mA	380 mA	82
PSW15-48-512D		5/±12 VDC	1500/±310 mA	15 mA	380 mA	82
PSW15-48-515D		5/±15 VDC	1500/±250 mA	15 mA	380 mA	82

NOTE: 1. Nominal Input Voltage 24 or 48 VDC

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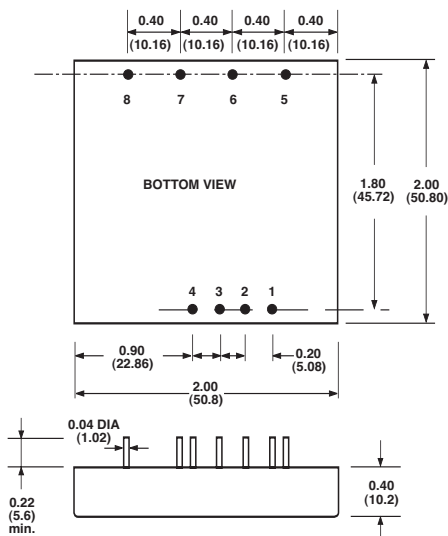
Electrical Specification

INPUT		
Input Voltage Range	24V	9-36V
	48V	18-72V
Input Filter		PI Type
OUTPUT		
Voltage Accuracy		
Single Output		±1.0% max.
Dual +Output		±1.0% max.
-Output		±3.0% max.
Triple 5V		±2.0% max.
12V/15V		±3.0% max.
Voltage Balance (Dual)		±1.0% max.
Transient Response		
Single 25% Step Load Change		<500µsec.
Dual FL 1/2L= 1% Error Band		<500µsec.
External Trim Adj. Range		±10%
Ripple and Noise, 20MHz BW	10mV RMS, max.	75m V p-p max.
Temperature Coefficient		±0.02%/C
Short Circuit Protection		Continuous
Line Regulation ¹ , Single/Dual		±0.2% max.
Triple		±1.0% max.
Load Regulation ³ , Single/Dual		±1.0% max.
Triple		±5.0% max.
GENERAL		
Efficiency		See Table
Isolation Voltage		500 VDC min.
Isolation Resistance		10 ⁹ ohms min.
Switching Frequency		300kHz, Typ.
Case grounding		Connected to Output Common
Operating Temperature Range		-25°C to +71°C
Case Temperature (Plastic Case)		100°C max.
Cooling		Free-Air Convection
Storage Temperature Range		-55°C to +105°C
EMI/RFI		Six-Sided Continuous Shield
Dimensions		2 x 2 x 0.4 inches (50.8 x 50.8 x 10.2 mm)
Case Material		Black Coated Copper with Non-Conductive Base

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.

Triple Output Loading Table (1)

Output (Pin No.)	Voltage	Amperes	
		Min.(2)	Nom.
7	+5	0.25	1.5
8 & 5	+12 & -12	0.10	0.31
8 & 5	+15 & -15	0.10	0.25

NOTE:

1. Maximum total power from all outputs is limited to 15 watts but no output should be allowed to exceed its maximum current.
2. Minimum current on each output is required to maintain specified regulation.

Pin Connection

Pin	Single Output	Dual Output	Triple Output
1	Remote On/Off Control		
2	No Pin	No Pin	No Pin
3	-Vin	-Vin	-Vin
4	+Vin	+Vin	+Vin
5	Trim	Trim	-Aux. Out
6	-Vout	-Vout	Common
7	+Vout	Common	+5V out
8	No Pin	+Vout	+Aux. Out

Remote On/Off Control

Logic Compatibility	CMOS or Open Collector TTL
On	>+5.5VDC or Open Circuit
Off	<1.8 VDC
Shutdown Idle Current	10 mA
Control Common	Referenced to Input Minus

External Output Trim

Output may optionally be externally trimmed (±10%) with a fixed resistor or an external trimpot as shown.

