

# DC-DC Converters



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PS15 Series  
15 Watt Wide Input  
PCB Mounting  
Single & Dual Outputs



## Features

- 15W Isolated Output
- Efficiency to 83%
- 2:1 Input Range
- Continuous Short Circuit Protection
- Meets EN55022 Class A, Conducted
- Remote On/Off Option
- Industry Standard Pin Out

MODEL	INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT	INPUT CURRENT		%EFF	
				NO LOAD	FULL LOAD		
PS15-12-33S	9-18 VDC	3.3 VDC	3000 mA	20 mA	1086 mA	76	
PS15-12-05S		5 VDC	3000 mA	20 mA	1602 mA	78	
PS15-12-12S		12 VDC	1250 mA	20 mA	1524 mA	82	
PS15-12-15S		15 VDC	1000 mA	20 mA	1524 mA	82	
PS15-12-05D		+5 VDC	±1500 mA	30 mA	1563 mA	80	
PS15-12-12D		±12 VDC	±625 mA	30 mA	1506 mA	83	
PS15-12-15D		±15 VDC	±500 mA	30 mA	1506 mA	83	
PS15-24-33S		18-36 VDC	3.3 VDC	3000 mA	20 mA	543 mA	76
PS15-24-05S			5 VDC	3000 mA	20 mA	780 mA	80
PS15-24-12S			12 VDC	1250 mA	20 mA	762 mA	82
PS15-24-15S			15 VDC	1000 mA	20 mA	762 mA	82
PS15-24-05D			+5 VDC	±1500 mA	25 mA	772 mA	81
PS15-24-12D	±12 VDC		±625 mA	25 mA	755 mA	83	
PS15-24-15D	±15 VDC		±500 mA	25 mA	755 mA	83	
PS15-48-33S	36-72 VDC		3.3 VDC	3000 mA	15 mA	271 mA	76
PS15-48-05S			5 VDC	3000 mA	15 mA	391 mA	80
PS15-48-12S			12 VDC	1250 mA	15 mA	377 mA	83
PS15-48-15S			15 VDC	1000 mA	15 mA	377 mA	83
PS15-48-05D			+5 VDC	±1500 mA	20 mA	381 mA	82
PS15-48-12D		±12 VDC	±625 mA	20 mA	377 mA	83	
PS15-48-15D		±15 VDC	±500 mA	20 mA	377 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 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 <sup>1</sup> , Single/Dual		±0.2% max.
Load Regulation <sup>2</sup> , Single/Dual		±1.0% max.
GENERAL		
Efficiency		See Table
Isolation Voltage		500VDC min.
Isolation Resistance		10 <sup>9</sup> 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

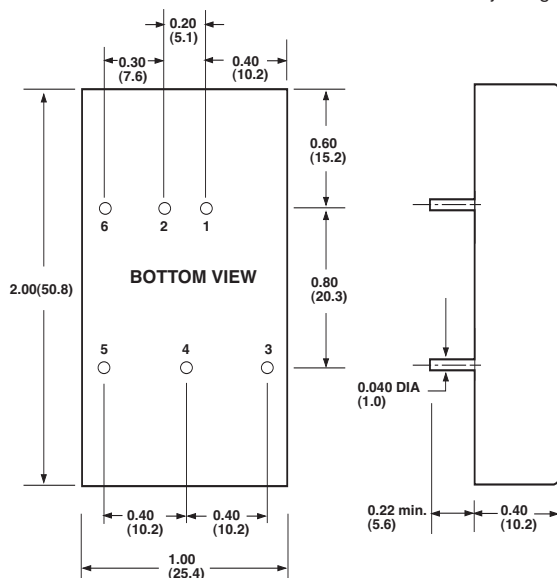
### NOTE:

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

### OPTION:

1. Suffix "T" to the Model Number with Remote On/Off Remote On/Off Control:  
 Logic Compatibility ..... COMS or Open Collector TTL  
 ON ..... >+5.5VDC or Open Circuit  
 OFF..... <1.8 VDC  
 Control Common ..... Referenced to Input Minus
2. Suffix "A" to the Model Number with Output Voltage Adjustable External Trim  
 Adj. Range 10%, Single Output Only

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



### Pin Connection

Pin	Function
1	+V Input
2	-V Input
3	+V Output
4	Common/NP/Trim (Option)
5	-V Output
6	NP/Remote (Option)

NP\* - NO PIN ON SINGLE OUTPUT

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