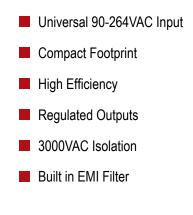


## Compact 15 Watt Enclosed Switching Power Supplies

# PV15 series





2.59"W x 2.0"L x 1.1"H

Model Number	Output Voltage	Output Amps (max)	Ripple/Noise pp,typ	Efficiency
PV15-5S	5 VDC	3	80mV	77%
PV15-12S	12 VDC	1.25	120mV	80%
PV15-15S	15 VDC	1	120mV	80%
PV15-24S	24 VDC	0.63	120mV	80%
PV15-48S	48 VDC	0.32	120mV	80%

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## Compact 15 Watt Enclosed Switching Power Supplies

#### INPUT SPECIFICATIONS

Input Voltage Range AC/DC	90-264 VAC (100-240VAC nom)
	125-370 VDC
Frequency Range	47-63 Hz
Inrush Current, typ, Cold start:	20A @ 120VAC Input *
	40A @ 220VAC Input *

#### **OUTPUT SPECIFICATIONS**

Voltage and Current	See Selection Chart
Load Regulation (20% to 100%)	± 0.5%, typ.; 1% max.
Line Regulation	± 0.5%, typ.; 1% max.
Preset Accuracy	1%, typ
DC Voltage Adjust (typ)	± 10%
Temperature Coefficient	± 0.03%/°C (0-50°C, typ.)
Ripple/Noise (Note 1)	See Selection Chart
Over Voltage Protection	Clamp *
Over Current Protection	160% max. at 115/230Vac,
	auto-recovery *
Short Circuit Protection	Latching, recoverable after fault
	is released
Hold Up Time	16mS, typ (Nom I/P, FL)

#### **GENERAL SPECIFICATIONS**

Isolation		I/P-O/P: 4242VDC (3000VAC)
		I/P-Ground: 2121VDC (1500VAC)
		O/P-Ground 707VDC (500VAC)
Efficiency		See Selection Chart
Switching Frequency		65Khz, (fixed, typical)
Safety	UL/cUL:	UL60950-1 2nd ed./
		C22.2 60950-1 2nd ed.
UL-EU:		EN60950-1 2nd ed.
CE:		EN60601-1-2
CB:		IEC60950-1 2nd ed.

All specifications are typical at nominal input, full load, and  $25^{\circ}\mathrm{C}$  unless otherwise noted

#### **ENVIRONMENTAL SPECIFICATIONS**

Oper. Temperature	-20 to +70°C (See Derate)
Storage Temperature	-20 to +85°C *
Relative Humidity	0% to +95%, non-cond *
EMC	EN55022 Class B
EMS	EN61000-3-2,3
	EN61000-4-2,3,4,5,6,8,11
MTBF (MIL-STD-217, 25°C)	190,000 Hrs

**PV15** series

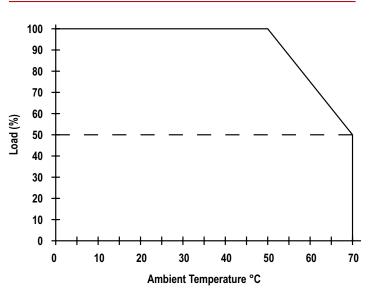
#### PHYSICAL SPECIFICATIONS

2.59" x 2.0" x 1.1"
(66mm x 50.8mm x 28mm)
Enclosed
0.275 lb, (125g)

#### NOTES

1. Measured by paralleling 47uF/EC and 0.1uF ceramic capacitors on the output at a 20MHz band-width

#### **DERATE CURVE**



\* These are stress ratings. Exposure of the devices to any of these conditions may adversely affect long term reliability. Proper operation under conditions other than the standard operating conditions is neither warranteed nor implied.

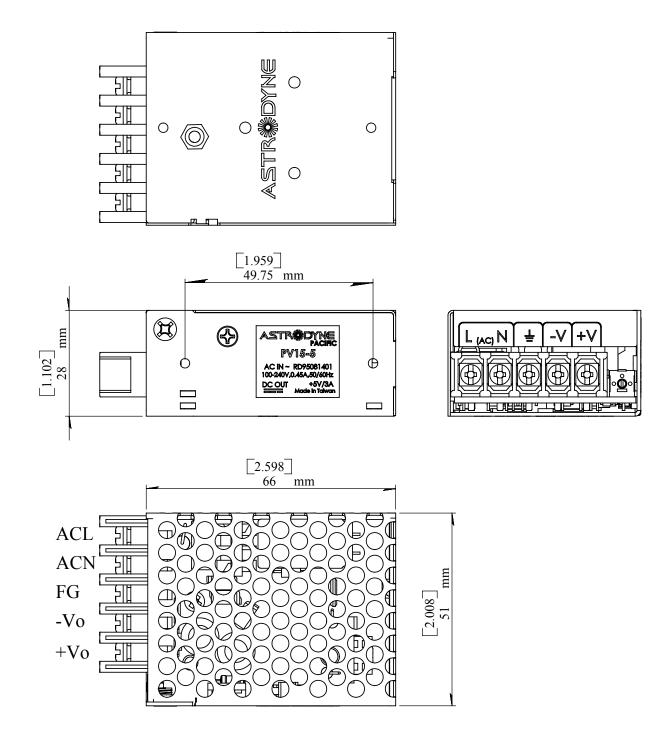
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#### ASTRODYNE USA: 1-800-823-8082 ASTRODYNE PACIFIC: 886-2-26983458



### Compact 15 Watt Enclosed Switching Power Supplies

#### **MECHANICAL DIMENSIONS**



Use M3 Screws

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## **PV15** series