Astrodyne

Compact 15 Watt Enclosed Switching Power Supplies

PV15 series



2.59"W x 1.98"L x 1.1"H

- Universal 90-264VAC Input
- Compact Footprint
- High Efficiency
- Regulated Outputs
- 3000V Isolation
- Built in EMI Filter

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%

ASTRODYNE USA: 1-800-823-8082
ASTRODYNE PACIFIC: 886-2-26983458
ASTRODYNE EUROPE: 353 51 561060

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INPUT SPECIFICATIONS

Input Voltage Range AC/DC	90-264 VAC / 125-370 VDC
Frequency Range	47-63 Hz
Inrush Current, typ:	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	See Selection Chart
Over Voltage Protection	Clamp *
Short Circuit Protection	Latching, recoverable after cooling
	and re-power
Hold Up Time	16mS, typ (Nom I/P, FL)

GENERAL SPECIFICATIONS

Isolation	I/P-O/P: 3000VAC
	I/P-Ground: 1500VAC
	O/P-Ground 500VAC
Efficiency	See Selection Chart
Switching Frequency	65Khz, (fixed, typical)
Safety Approvals	UL60950-1, EN60950-1

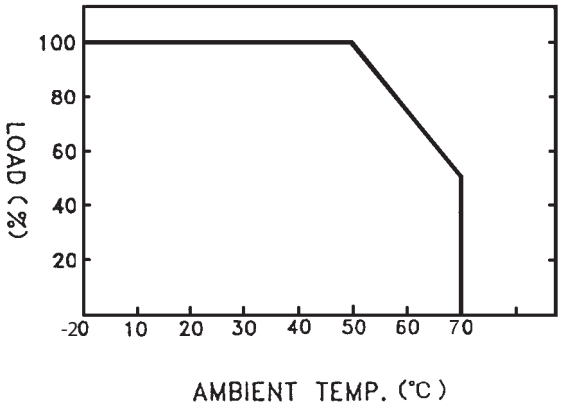
ENVIRONMENTAL SPECIFICATIONS

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
	EN61000-3-2,3
	EN61000-4-2,3,4,5,6,8,11
	ENV50204

PHYSICAL SPECIFICATIONS

Size	2.59" x 1.98" x 1.1"
	(66mm x 50.4mm x 28mm)
Construction	Enclosed
Weight	0.275 lb, (125g)

DERATE CURVE



All specifications are typical at nominal input, full load, and 25°C unless otherwise noted

* 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.

Astrodyne products are not authorized or warranteed for use as critical components in life support systems, equipment used in hazardous environments, nuclear controls systems, or other mission-critical applications.

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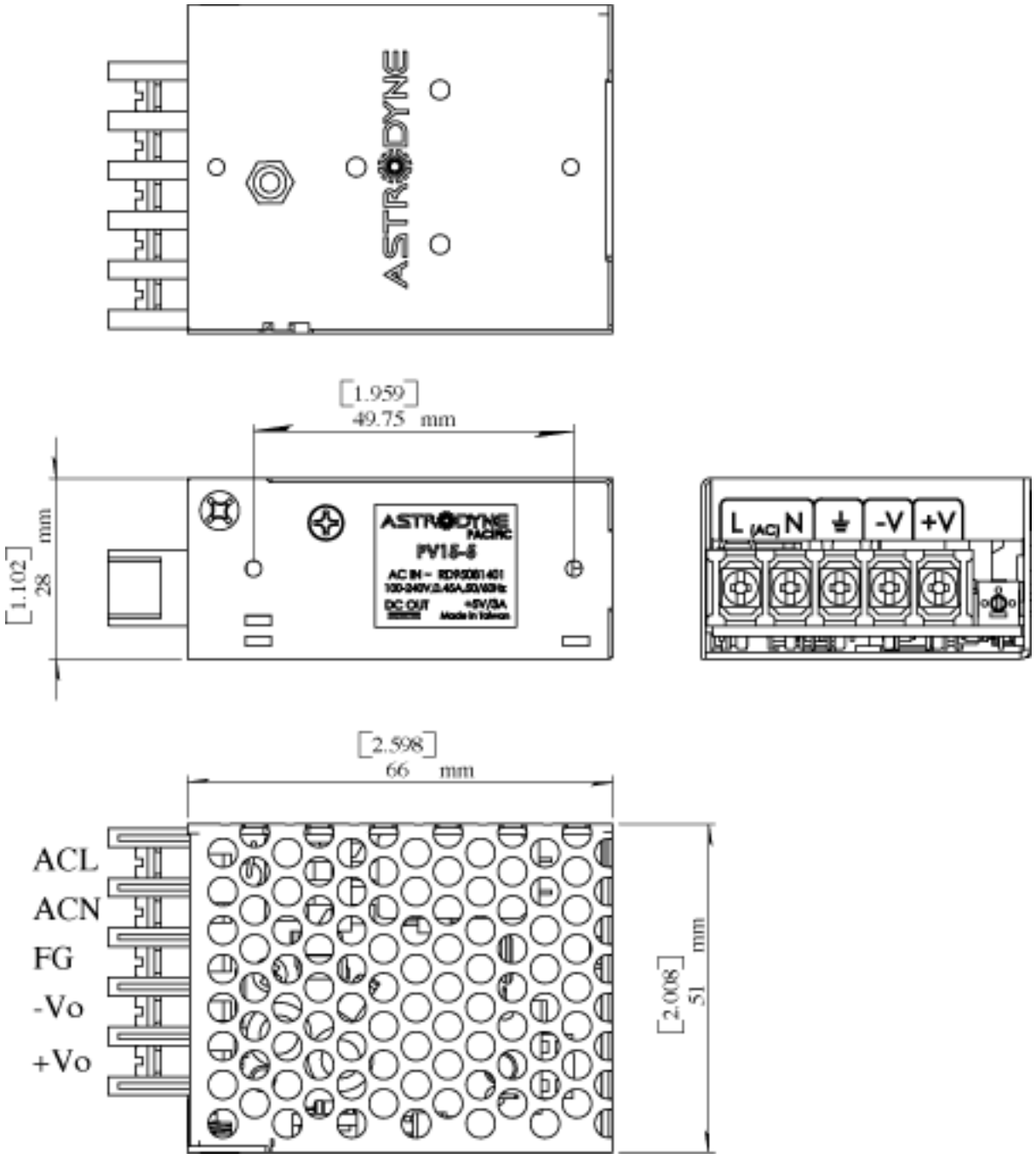
MECHANICAL DIMENSIONS



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