

APS

Advanced Power Solutions

AC TO DC INTERNAL SWITCHING POWER SUPPLIES PASSIVE POWER FACTOR CORRECTION SINGLE OUTPUT 150 WATTS APS150RS SERIES



FEATURES:

- EN61000-3-2 CLASS A HARMONIC CORRECTION
- SMALL 3.2 x 5.0 x 1.5 INCHES
- EMI/RFI MEETS FCC CLASS B and
CISPR PUB. 22 CLASS B
- UL, CUL, TUV and CE MARKING COMPLIANCE

<p>Input Voltage 90-132 / 180-264VAC single phase auto selectable or strippable (optional)</p> <p>Input Frequency 47~63 Hz</p> <p>Input Current 4/2A at 115/230VAC</p> <p>Inrush Current 70A max. at 230V full load cold start</p> <p>Power Factor Correction EN61000-3-2 class A</p> <p>EMI Requirement FCC Part 15 Subject J Class B, CISPR 22 Class B</p> <p>Transient Response O/P voltage returns to within 1% in <500 μs for 50% load change, <5%</p> <p>Overshoot Turn-on and turn-off overshoot will not exceed 5% over nominal voltage</p> <p>Efficiency 80% minimum (115V and full load)</p> <p>Turn-On Delay 1 second maximum at 120 VAC</p>	<p>Hold Up Time 20 ms min. at 120 VAC and 80% of rated maximum load</p> <p>Leakage Current maximum 3.5mA</p> <p>Grounding test < 0.1 ohm at 25A</p> <p>HI-POT 1500 VAC for 3 seconds</p> <p>Remote On-Off Low signal will inhibit output</p> <p>Power Supply On Green LED ON=operating</p> <p>Power Good Goes high 100-500ms when o/p reaches regulation limit and goes low at least 1 ms before loss of regulation.</p> <p>Over-Current Protection Current limits at 110-135% of rated o/p current and recovers automatically</p> <p>Short Circuit Protection Protects against short circuit with automatic recovery</p>	<p>OVP Over Voltage Protection latching at 130%, recycle AC to reset</p> <p>Over Temperature Protection Shutdown with automatic recovery</p> <p>Operating Temperature 0 to 50°C for all models except for APS150RS-A and APS150RS-B which is 0 to 40°C</p> <p>Storage Temperature -20 to 85°C</p> <p>Operating Humidity 5% to 90% RH, non-condensing</p> <p>Adjustability Output adjustable \pm5% minimum</p> <p>Vibration Frequency 5 to 50 Hz acceleration \pm7.35 M/(SxS) on X, Y and Z Axis</p> <p>Cooling 16 CFM forced air for full ratings</p> <p>Burn in 1 hour at 45°C</p> <p>Fan Drive Output 12VDC/160mA</p> <p>AC Input Connector (P3)</p>	<p>Mating Molex Part No. 09-91-0500 and pins; Molex 2478, 2578, 8818</p> <p>Output Connector (P2) Mating Molex Part No. 09-91-0600 Mating Pins: Molex 2478, 2578, 8818</p> <p>Power Good, Remote On/Off mating connectors (P1) Mating JST Part No. XHP-3 (CHYAO SHIUNN JS-2001-03) Mating Pins: JST SXH-002T-P0.6</p> <p>Mounting Inserts 8 Places M3. Max. Penetration 4 mm</p> <p>Weight 400g</p> <p>Enclosure 5.0 (L) x 3.2 (W) x 1.5 (H) inches U-Channel Chassis type</p> <p>MTBF 100,000 hrs at 30°C, MIL-HBK-217F</p> <p>Safety Regulation UL CUL TUV CE</p>
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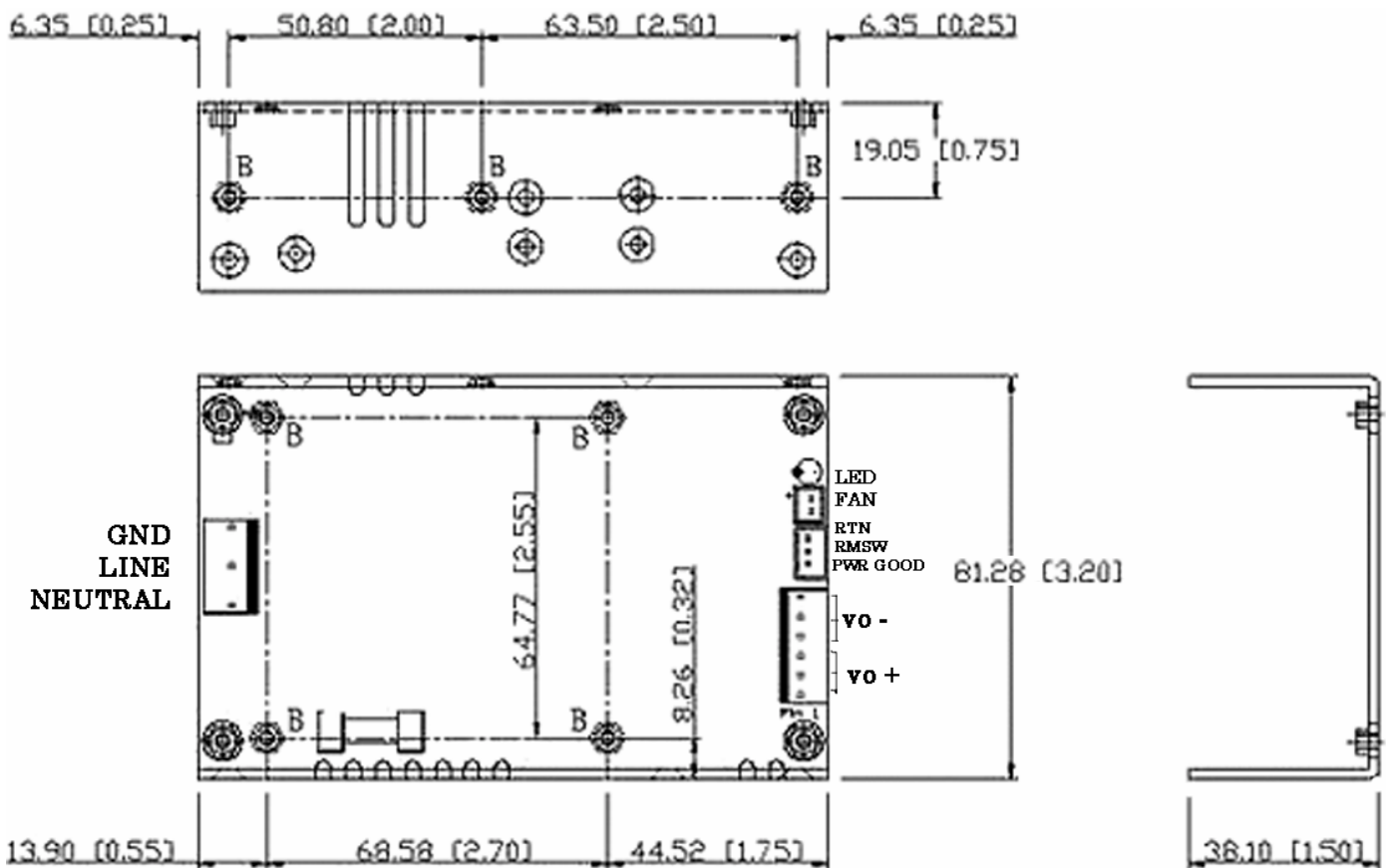
OUTPUT VOLTAGE / CURRENT / REGULATION / NOISE CHART

Model	Output	Output Current		Regulation	Ripple & Noise
		Min.	Max.		
APS150RS-A	3 - 4V	0.5A	30A	±1%	50mV
APS150RS-B	5 - 6V	0.5A	30A	±1%	50mV
APS150RS-C	12 - 16V	0.5A	12.5A	±1%	±1%
APS150RS-D	24 - 30V	0.5A	6.25A	±1%	±1%
APS150RS-E	36 - 56V	0.5A	4.17A	±1%	±1%

- * All models with the exception of the APS150RS-A maximum are rated at 150W continuous output with 16 C.F.M .
- * Max. 100W continuous output without forced air, except APS150RS-A which current is limited to 20A without forced air.
- * Ripple and noise is measured from 10KHz to 20MHz bandwidth with 0.1µF and 22µF capacitors.

MECHANICAL DIMENSIONS: MM [INCHES]

Weight: 400g (14.1 Oz)



INPUT & OUTPUT CONNECTORS PIN ASSIGNMENTS

SIGNAL NAME	AC INPUT			SINGLE OUTPUT		CONTROLS			FAN OUTPUT	
	AC LINE	AC NEUTRAL	AC GROUND	VO POS	VO NEG	POWER GOOD	REMOTE SWITCH	RETURN	POS	NEG
PIN ASSIGNMENT	3	1	5	1, 2, 3	4, 5, 6	1	2	3	1	2