INTEGRATED POWER DESIGNS

300 Stewart Road
Wilkes-Barre, PA 18706 USA
Phone: (570) 824-4666

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SRP-25 SERIES OPERATING INSTRUCTIONS

INPUT RATING: 100-240VAC, 1 A, 50-60 Hz.

OUTPUT RATING: 25 Watts maximum total output power convection cooled (20 W, 1001).

MODEL LISTING:

Model	Output #1	Output #2	Output #3
SRP-25-3001	+5VDC/3A	+12VDC/1.5A	-12VDC/0.5A
SRP-25-3002	+5VDC/3A	+15VDC/1.5A	-15VDC/0.5A
SRP-25-3003	3.3VDC/2.5A	6VDC/2A	5VDC/1A
SRP-25-2001	+5VDC/3A	+24VDC/1A	
SRP-25-2002	+5VDC/3A	+12VDC/1.5A	
SRP-25-2003	+5VDC/3A	-5VDC/2A	
SRP-25-2004	+12VDC/1.5A	-12VDC/1.5A	
SRP-25-2005	+15VDC/1.5A	-15VDC/1.5A	
SRP-25-1001	3.3VDC/6A		
SRP-25-1002	5VDC/5A		
SRP-25-1003	12VDC/2.08A		
SRP-25-1004	15VDC/1.67A		
SRP-25-1005	24VDC/1.04A		
SRP-25-1006	48VDC/0.52A		

NOTES: 1. A suffix may be added to the model number to indicate the following optional configurations:
(CH-chassis, CO-cover, IO-isolated outputs, TS-terminal strip, WT-Low Temperature Turn On).

DECLARATION OF CONFORMITY

Manufacturer: Integrated Power Designs, Inc.
Manufacturer's Address: 300 Stewart Road, Wilkes-Barre, PA 18706 USA
Product Type: Switchmode AC-DC Power Supply

Declares all models listed above including all options are in compliance with the following European Community Directives:

Low Voltage Directive 2014/35/EU of 26 February 2014
RoHS Directive 2015/863/EU of 31 March 2015

As well as with the requirements set out in the Laws of the United Kingdom relating to and applying the following standards:

Electrical Equipment (Safety) Regulations 2016 SI No. 1101
BS EN 62368-1:2014
Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012 SI No. 3032 + 2019 SI No.492

In addition, all models are Certified to be in compliance with applicable requirements of UL 62368-1:2014, ANSI/AAMI ES60601-1:2005/AMD2 :2021, IEC 62368-1:2014 and IEC 60601-1:2005/A1:2012 including all EU national deviations, CAN/CSA-C22.2 No. 62368-1-14, CAN/CSA-C22.2 No. 60601-1:14 , AM1:2014, AM2:2022, EN 62368-1:2014 and EN 60601-1:2006/A1:2013.

BY: John Thompson - President
John Thompson
PLACE: Integrated Power Designs
300 Stewart Road, Wilkes-Barre, PA 18706 USA
DATE: March 24, 2025

EUROPEAN CONTACT:
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CLASSIFICATION:
1. Protection against electric shock – Class I.
2. Protection against harmful ingress of water – IPXO (Non-protected), ordinary.
3. Methods of sterilization – None.
4. Suitability for use in an oxygen rich environment – End user responsibility, not evaluated.
5. Mode of operation – Continuous.

WARNING! RISK OF FIRE! An open internal fuse indicates a catastrophic failure of circuit component(s). Repair must be by authorized IPD personnel only. Refer to fuse rating on power supply circuit board for rating.

WARNING! SHOCK HAZARD! Dangerous voltages are present on some components, printed circuit board traces and heatsinks.

INPUT FUSE: This product includes a single fuse in the phase lead only. In consideration of IEC 60601-1:2005 Clause 8.11.5, a second fuse may be required in the neutral lead of the end use equipment

SEPERATION: Primary to secondary creepage distance is 8mm minimum, clearance 5mm minimum (2MOPP). Primary to ground creepage distance is 4mm minimum, clearance 2.5mm minimum (1MOPP). Secondary to ground creepage is 2.3mm minimum, clearance is 1.4mm minimum (Operational Insulation). Required seperation must be maintained in the end use equipment to preserve the established means of protection.

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OUTPUTS: The outputs are not acceptable for patient connection without additional isolation. All outputs are ES1 under normal and single fault conditions except the 1006 which is ES2 under single fault condition.

TEMPERATURES: The maximum operating temperatures of safety components as defined in the applicable safety standards must not be exceeded after installation in the end use equipment. Output power, ambient air temperature and convection or forced air cooling availability should be considered in the end use equipment.

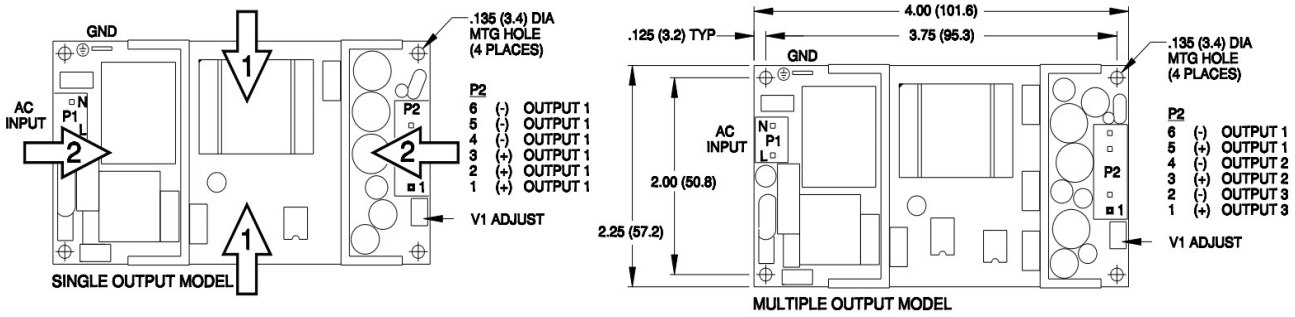
HIPOT: In consideration of IEC 60601-1:2005 Clause 8.8.3, care must be taken to insure the voltage applied to a reinforced insulation does not overstress different types and levels of insulation. Breakdown of basic insulation and catastrophic failure of the power supply may result if a test voltage of greater than 1800 VAC is applied between primary and secondary circuits. Each isolating component is factory tested at 4000 VAC minimum prior to installation. Primary and secondary to ground capacitors may need to be disconnected prior to performing a dielectric strength test on the power supply or the end product.

INSTALLATION: The power supplies included in model listing on reverse side are considered components intended for professional installation into end use equipment. The protective earth (ground) terminal must be bonded to protective earth in the end use equipment.

EMISSIONS: This product was tested for compliance with EN 55022 and EN 55011 Class B conducted and radiated emissions using the techniques listed below and non-inductive load resistors to simulate operation in a typical installation. All or a combination of the following requirements may be necessary to insure compliance in the end use equipment.

1. Installation of the power supply, output cables and loads in a shielded enclosure.
2. Use of optional chassis and cover.
3. Use of shielded I/O cables.
4. Use of ferrite beads on I/O cables.
5. Grounded output returns.

CONNECTIONS / DIMENSIONS:



AIR FLOW DIRECTION: Airflow direction: 1 - Recommended, 2 - Good.

CONNECTORS:
P1: AC Input – 0.156 inch friction lock header mates with Molex 09-50-3031 or equivalent crimp terminal housing with Molex 08-50-0189 or equivalent crimp terminal.
P2: DC Output – 0.156 inch friction lock header mates with Molex 09-50-3061 or equivalent crimp terminal housing with Molex 08-50-0189 or equivalent crimp terminal.
G: Protective Earth (Ground) – 0.187 quick disconnect terminal.