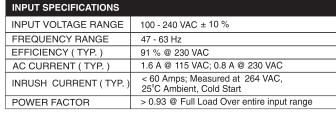
OPS2x4-150-12-A-1-CU Operating Instruction





OUTPUT SPECIFICATIONS				
OUTPUT VOLTAGE	12 - 13 VDC			
OUTPUT CURRENT	Convection: 9.17 A Forced air (13 CFM): 12.50 A			
RIPPLE AND NOISE	< 1 % of Vout *			
LINE AND LOAD REGULATION	< ± 1 %			
START UP TIME	< 2 sec @ Full Load Over entire input range			
HOLD UP TIME	> 20 msec at convection load & > 10 msec at full load for nominal Vout			

* Ripple & Noise measured at 20 MHz of bandwidth by using 0.1 uF & 10 uF parallel capacitor.

PROTECTIONS	
OUTPUT OVER LOAD	110 % to 140 % of rated output current Protection type: Hiccup mode; Recovers automatically after fault condition is removed.
OUTPUT SHORT CIRCUIT	Hiccup mode when output is shorted; Recovers automatically after fault condition is removed.
OUTPUT OVER VOLTAGE	14.5 VDC ± 1 VDC Protection type: Latched; Input AC power has to be recycled to recover the power supply.
OVER TEMPERATURE	Power supply shuts down when the temperature of PCB below Transformer reaches typically 120°C; Turns ON only after the temperature falls to below 90°C typically and AC power is recycled there after.

ENVIRONMENT	
OPERATING TEMPERATURE	- 40°C to + 70°C (Refer datasheet for temperature de-rating)
STORAGE TEMPERATURE	- 40°C to + 85°C
HUMIDITY	5 to 95 % RH, Non Condensing
ALTITUDE	2000 m

SAFETY & EMC			
SAFETY STANDARDS	Designed to meet IEC / EN / UL 62368-1; IEC / EN 60601-1; IEC / EN 61558		
DIELECTRIC WITHSTAND VOLTAGE	I/P to Earth : 1500 VAC I/P to O/P : 4000 VAC O/P to Earth : 1500 VAC		
INSULATION RESISTANCE	100 $\text{M}\Omega$ min. (between all outputs and all inputs / PE terminals) at 500 VDC		
CONDUCTED EMISSION	CISPR32; Class B		
RADIATED EMISSION	CISPR32; Class A		
CURRENT HARMONICS	Class D		
EMS IMMUNITY	Compliance to IEC61000-4-4, 5, 11		

MECHANICAL					
DIMENSION	4 x 2 x 1.34 inch (Lx W x H)				
UNIT WEIGHT	< 180 gms				
2.00 [50.60] DOI: 1.00 [50.60] DOI: 0.00 [50.60]					

Note: 1. This open frame power supply should preferably be mounted horizontally on 4 metal stand-offs having diameter not more than 6 mm and height not less than 7 mm.

- 2. Screws used to fix PCB on stand off should not have head diameter more than 6 mm.
- 3. Washer used should not have diameter more than 6 mm.

CONNECTOR DETAILS						
Ref Des	Description	Туре	Pin number	Function		
		Tyco: 640445-3; Mates with 647402-3;	1	AC Neutral		
	Input AC connector		2	Not connected		
	2230(0)	Pin: 3-647409-1	3	AC Line		
J2 Output DC connector (Header type)		Tyco: 640445-4; Mates with 647402-4:	1, 2	V1 Negative		
	Pin: 3-647409-1	3, 4	V1 Positive			
J3 Fan connecto	Fan aannaatar	Molex: 22-04-1021; Mates with 22-01-1022:	1	V2 Positive		
	ran connector	Pin: 08-50-0113	2	V2 Negative		
-	Earth*	Mounting holes marked with Earth symbol	-	Earth		

*All the mounting holes marked with Earth symbol must be Earthed.

WIRING INSTRUCTIONS

- 1. To prevent risk of electric shock, power supply equipment must be kept OFF while wiring.
- 2. Terminals and electrically charged parts must not be touched when the power is ON.
- 3. Wiring shall be done strictly according to the connector details.

FEATURES

- > 4 x 2 x 1.34 Inches Form factor.
- > 150 Watts with Forced Air Cooling & 110 Watts Convection Cooling.
- No Load Power < 0.5 W.
- Medical (BF) Safety Approvals.
- Approved to Household, ITAV and Medical standards.
- Dual Fusing.

INTENDED USE

This device is designed for the general professional use such as in instrumentation equipment, office, industrial control and communication as well as for medical equipments.

Do not use this power supply in equipment where malfunction may cause severe personal injury or threaten human life.

WARNING:

Risk of electrical shock, fire, personal injury or death.

- 1. Do not use the power supply without proper grounding (Protective Earth)
- Do not use in wet locations or in areas where moisture or condensation can be expected.
- Make sure mains power supply is off before wiring the power supply unit. Make sure of correct wiring. Incorrect wiring may cause electrical shock or damage.
- Do not touch the power supply during operation or immediately after turning off because some parts get hot or are at high voltage which may cause burns or electrical shock.
- 5. Do not install the power supply where human body may come into contact while power is supplied to the power supply.
- Do not repair the power supply at user end. Modification or repairing of the power supply by users may cause electrical shocks, damage & other accidents.
- 7. If damage or malfunction occurs during operation, immediately turn off mains power.

MEANING OF PRODUCT SAFETY SYMBOL



WEEE symbol for Electrical and Electronic Equipment waste management

Symbole DEEE pour la gestion des déchets d'équipements électriques et électroniques

SAFETY INSTRUCTIONS

- This manual is meant for personnel involved in wiring installation operation & routine maintenance of the equipment.
- Disconnect power supply of your system before starting any installation operation or wiring.
- Improper installation operation or wiring may impair safety & failure of the unit or electrical shock or damage.
- Connect the ground completely. A protective earthing terminal stipulated in safety standards is used. Electric shock or malfunction may occur if ground is not connected properly.

? SERVICE DETAILS

This power supply is not field serviceable product. In case of failure or malfunction, send back the power supply to factory.

Please contact service center for repair on the following numbers:

Tel. No.: +91-7498077172; Email: service@selec.com

NO WARRANTY ON UNIT DAMAGED DUE TO WRONG CONNECTION OF POWER SUPPLY.

(Specifications are subject to change, since development is a continuous process.)

Company Address:

EL-27/1, Electronic Zone, TTC Industrial Area, MIDC, Mahape, Navi Mumbai - 400 710, INDIA.

Tel. No.: +91-22-28476443 / 1882

Fax No.: +91-22-28471733 | Toll free: 1800 227 353 | Website: www.selec.com | | Email: sales@selec.com

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