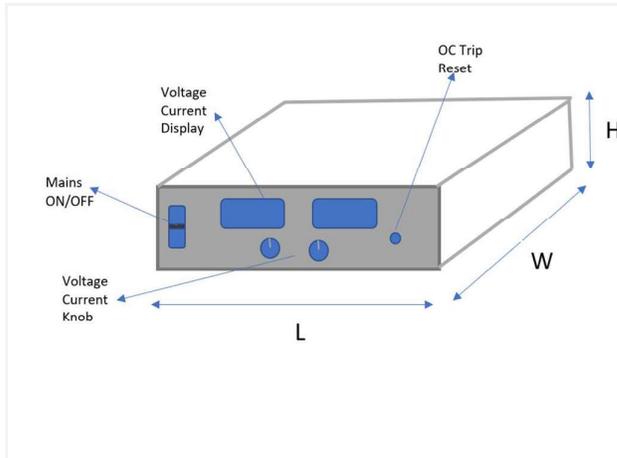


VARIABLE DC POWER SUPPLY 0-300V/5A


Summary:

- 0...300V Variable voltage by POT
- 0...5A Variable current by POT
- Input: Single Phase AC
- Power: 1.5kW

L=325mm W=280mm H=110mm Weight: 6.6KG

Section
Specification
Input

Mains Input Config	1 Φ , 2-Wire (Phase-Neutral + PE)
Voltage Range	210 V – 270 V AC
Input Current	8A
Frequency	47 – 53 Hz
Input Current (1 Φ)	Inrush current <16 A
Power Factor	0.80 at full load
Efficiency	90% Max.
Cooling	Forced air

Output

Voltage Range	0 – 300 DC (adjustable)
Current Range	0 – 5A (adjustable)
Voltage Ripple	within 300mv pk-pk
Accuracy	Voltage accuracy: 1% Current accuracy +/- 1%
Line Regulation	\leq 2% (220 V \rightarrow 270 V input, 75% Vout, 50% load)
Load Regulation	\leq 2% (75% Vout output, 50% \rightarrow 1% load step)

Rise Time 10% to 100% Voltage at 50% Rated current @ 100% Voltage:
<100ms

Fall Time 10% to 100% Voltage at 50% Rated current @ 100% Voltage:
<100ms

Discharge Time <10sec when 100% to 10% of Vout

Derating 50% of output current when Fan failed to operate
Linear reduction in max power when Vmains < 210V
50% of output current at dead short (infinite time)

Protection Features

Short Circuit Continuous with crowbar

Crowbar Release Voltage 25% of max output

Crowbar Current Limit 50% of rated current

Over Voltage Protection Yes. Realized by independent HW for additional safety

Over Current Protection Yes

Over Temperature Protection Yes, Auto Fan

Reverse Protection Recommended to externally use a fuse rated 5X of Max current of power supply to protect accidental reverse connection to Battery

Control & Monitoring

Local Control Voltage & Current knobs

Display 7-segment LED for Voltage & Current
Voltage Format: <00.0>
Current Format: <00.0>

External Control Optional RS485/ USB / Fiber Optic (HFBR)

Communication MODBUS RTU 57,600 bps

Self Diagnostics Yes (via communication)

Mechanical

Dimensions Refer Top

Weight

Refer Top

Environmental

Operating Temp

0 °C – 45 °C

Storage Temp

-20 °C – 70 °C

Humidity

< 90%, non-condensing