

Desktop power supply

Features:

- Universal input voltage
- Optional input inlets
- Single output
- Optional output connectors
- Over voltage protection
- Over current protection
- High efficiency & reliability
- Compact low profile package
- One year warranty

SAFETY AGENCY APPROVALS



| Specifications: | PSU40 Series: |
|-------------------------------|--|
| Input voltage | 100-240 VAC (Limits: 90-264VAC) |
| Input frequency | 47 to 63Hz |
| Input current | 0.8A (rms) for 115VAC, 0.6A (rms) for 230 VAC |
| Safety ground leakage current | Class 1 (3.5mA) Class 2 (0.25mA) max @ 240 VAC 50Hz |
| Output voltage | See rating chart ($\pm 5\%$ tolerance) |
| Output current | See rating chart |
| Output power range | 40 watts Max |
| Ripple | 1 % peak to peak maximum |
| Over voltage protection | Provided on outputs set at 112~132% of its nominal output voltage |
| Over current protection | All outputs protected to short circuit conditions |
| Temperature coefficient | All outputs $\pm 0.04\%$ / °C maximum |
| Transient response | Maximum excursion of 4% or better on all models. recovering to 1% of final value within 500uS after a 25% step load change |
| Operating temperature | 0°C ~ +40°C |
| Storage temperature | -40°C to +85°C |
| Relative humidity | 5% to 95% non-condensing |
| Derating | Derated from 100% at +40°C linearly to 50% at 70°C |
| Efficiency | 65% minimum at full output |
| Hold-up time | 10 msec minimum |
| Line regulation | $\pm 1\%$ maximum for any input voltage change between input voltage range |
| Load regulation | $\pm 5\%$ variations from minimum to maximum output current. |
| Insulation resistance | 50 Mohm minimum from output to ground |
| Inrush current | 15 AMPS @ 115 VAC, or 30 AMPS @ 230 VAC at 25°C cold start |
| Withstand voltage | 4242VDC from input to output |
| Mean time between failure | 50,000 hours minimum at full load at 25°C ambient |
| EMI requirements | Meets conduction limits of: CISPR 22.2 |
| Safety requirements | Meets or exceeds: (A) UL 1950 (B) CSA C22.2 (C) TUV EN60950 (D) IEC950 |
| Warranty | 1 year |

UNIT: mm

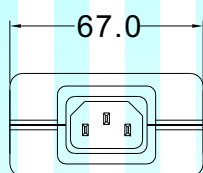


FIG 1



Note:
 1. Weight: Approx 300~350g
 2. Optional output connectors (see page 45)

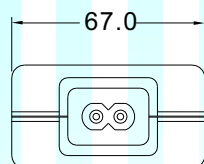


FIG 2

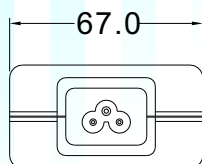
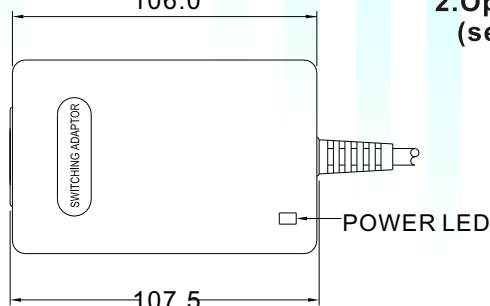


FIG 3



**** Please specify output voltage when ordering**

| Model | Output Voltage | Output Current | Maximum Output Power | Input inlet |
|------------|----------------|----------------|----------------------|-------------|
| PSU40A-0 | 3~5 VDC | 5.00~3.00A | 15W | FIG 1 |
| PSU40A-1 | 5~6 VDC | 5.00~4.17A | 25W | FIG 1 |
| PSU40A-1-1 | 6~8 VDC | 5.00~3.57A | 30W | FIG 1 |
| PSU40A-2 | 8~11VDC | 4.37~3.18A | 35W | FIG 1 |
| PSU40A-3 | 11~13VDC | 3.63~3.07A | 40W | FIG 1 |
| PSU40A-4 | 13~16VDC | 3.07~2.50A | 40W | FIG 1 |
| PSU40A-5 | 16~21VDC | 2.50~1.90A | 40W | FIG 1 |
| PSU40A-6 | 21~27VDC | 1.90~1.48A | 40W | FIG 1 |
| PSU40A-7 | 27~33VDC | 1.48~1.21A | 40W | FIG 1 |
| PSU40A-8 | 33~48VDC | 1.21~0.83A | 40W | FIG 1 |
| PSU40B-0 | 3~5 VDC | 5.00~3.00A | 15W | FIG 2 |
| PSU40B-1 | 5~6 VDC | 5.00~4.17A | 25W | FIG 2 |
| PSU40B-1-1 | 6~8 VDC | 5.00~3.57A | 30W | FIG 2 |
| PSU40B-2 | 8~11VDC | 4.37~3.18A | 35W | FIG 2 |
| PSU40B-3 | 11~13VDC | 3.63~3.07A | 40W | FIG 2 |
| PSU40B-4 | 13~16VDC | 3.07~2.50A | 40W | FIG 2 |
| PSU40B-5 | 16~21VDC | 2.50~1.90A | 40W | FIG 2 |
| PSU40B-6 | 21~27VDC | 1.90~1.48A | 40W | FIG 2 |
| PSU40B-7 | 27~33VDC | 1.48~1.21A | 40W | FIG 2 |
| PSU40B-8 | 33~48VDC | 1.21~0.83A | 40W | FIG 2 |
| PSU40C-0 | 3~5 VDC | 5.00~3.00A | 15W | FIG 3 |
| PSU40C-1 | 5~6 VDC | 5.00~4.17A | 25W | FIG 3 |
| PSU40C-1-1 | 6~8 VDC | 5.00~3.57A | 30W | FIG 3 |
| PSU40C-2 | 8~11VDC | 4.37~3.18A | 35W | FIG 3 |
| PSU40C-3 | 11~13VDC | 3.63~3.07A | 40W | FIG 3 |
| PSU40C-4 | 13~16VDC | 3.07~2.50A | 40W | FIG 3 |
| PSU40C-5 | 16~21VDC | 2.50~1.90A | 40W | FIG 3 |
| PSU40C-6 | 21~27VDC | 1.90~1.48A | 40W | FIG 3 |
| PSU40C-7 | 27~33VDC | 1.48~1.21A | 40W | FIG 3 |
| PSU40C-8 | 33~48VDC | 1.21~0.83A | 40W | FIG 3 |