

PSU50 50W Desktop series

Desktop power supply

Features:

- Universal input voltage
- Optional input inlets
- Dual or triple outputs
- Optional output connectors
- Over voltage protection
- Over current protection
- High efficiency & reliability
- Compact package
- One year limited warranty



SAFETY AGENCY APPROVALS



Specifications:	PSU50 Series:
Input voltage	100~240 VAC
Input frequency	50 ~ 60Hz (Limits: 47 ~ 63 Hz)
Input current	1.6A Max.
Safety ground leakage current	3.5mA Max.@ 240 VAC 50Hz
Output voltage	See rating chart ($\pm 5\%$ tolerance)
Output current	See rating chart
Output power range	50 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 $\pm 0.04\%/^{\circ}\text{C}$ 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 $^{\circ}\text{C}$ ~+30 $^{\circ}\text{C}$
Storage temperature	-40 $^{\circ}\text{C}$ to +85 $^{\circ}\text{C}$
Relative humidity	5% to 95% non-condensing
Derating	Derated from 100% at +30 $^{\circ}\text{C}$ linearly to 60% at 40 $^{\circ}\text{C}$
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 input to ground
Inrush current	15 AMPS @ 115 VAC, or 30 AMPS @ 230 VAC at 25 $^{\circ}\text{C}$ cold start
Withstand voltage	4242VDC from input to output
Mean time between failure	50,000 hours minimum at full load at 25 $^{\circ}\text{C}$ ambient
EMI requirements	Meet CE standards
Safety requirements	Meets or exceeds:(A)UL 1950 (B) CSA C22.2 (C)TUV EN60950-1 (D) IEC 950
Warranty	1 year

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UNIT:mm

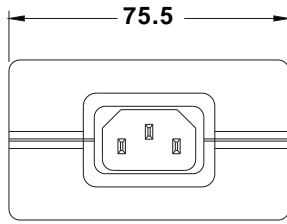


FIG1

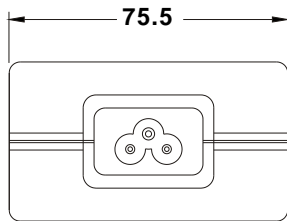
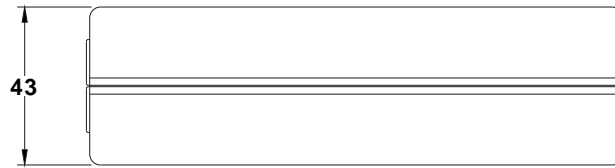
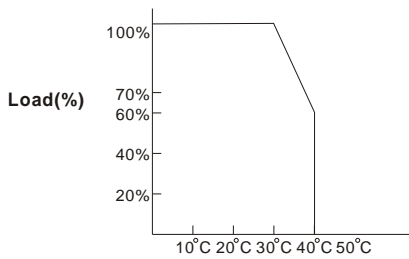
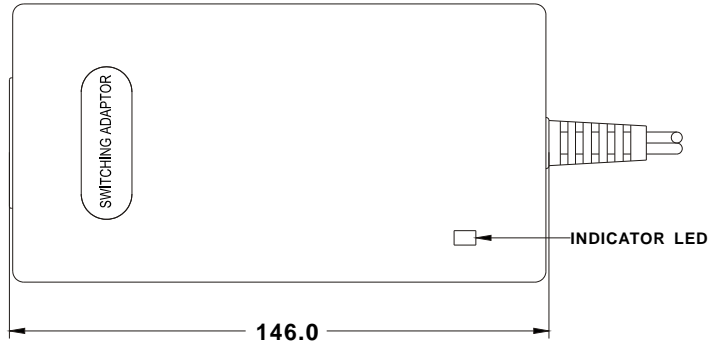
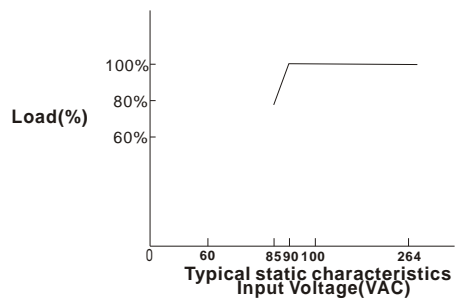


FIG2



Ambient temperature(°C)
Derating



Typical static characteristics
Input Voltage(VAC)

FIG1

Model name	Output#1 Vnom Imax	Output#2 Vnom Imax	Output#3 Vnom Imax	Maximum Output Power
PSU50A-12	+5VDC 4.50A	+9VDC 1.70A	N / A	37.8W
PSU50A-13	+5VDC 4.00A	+12VDC 2.00A	N / A	44W
PSU50A-14	+5VDC 4.00A	+15VDC 1.80A	N / A	47W
PSU50A-16	+5VDC 2.00A	+24VDC 1.00A	N / A	49W
PSU50A-16-1	+5VDC 2.00A	+24VDC 1.50A	N / A	46W
PSU50A-36	+12VDC 2.20A	+24VDC 1.00A	N / A	50.4W
PSU50A-13D	+5VDC 4.00A	+12VDC 2.00A	-12VDC 0.50A	50W
PSU50A-14E	+5VDC 4.00A	+15VDC 1.50A	-15VDC 0.50A	50W
PSU50A-13D-1	+5VDC 5.00A	+12VDC 1.00A	-12VDC 0.25A	40W

FIG2

Model name	Output#1 Vnom Imax	Output#2 Vnom Imax	Output#3 Vnom Imax	Maximum Output Power
PSU50C-12	+5VDC 4.50A	+9VDC 1.70A	N / A	37.8W
PSU50C-13	+5VDC 4.00A	+12VDC 2.00A	N / A	44W
PSU50C-14	+5VDC 4.00A	+15VDC 1.80A	N / A	47W
PSU50C-16	+5VDC 2.00A	+24VDC 1.00A	N / A	49W
PSU50C-16-1	+5VDC 2.00A	+24VDC 1.50A	N / A	46W
PSU50C-36	+12VDC 2.20A	+24VDC 1.00A	N / A	50.4W
PSU50C-13D	+5VDC 4.00A	+12VDC 2.00A	-12VDC 0.50A	50W
PSU50C-14E	+5VDC 4.00A	+15VDC 1.50A	-15VDC 0.50A	50W
PSU50C-13D-1	+5VDC 5.00A	+12VDC 1.00A	-12VDC 0.25A	40W

Note:

- 1.Weight:Approx 510~560g
- 2.Optional output connectors(see page 72)