

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:	PSU50series:
Input voltage	100~240VAC
Input frequency	50~60Hz (Limits:47~63Hz)
Input current	1.6A Max.
Safety ground leakage current	3.5mA Max. @240VAC/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 output $\pm 0.04\%/^{\circ}\text{C}$ 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°C ~+30°C
Storage temperature	-40°C ~+85°C
Relative humidity	5% to 95% non-condensing
Derating	Derated from 100% at + 30°C linearly to 60% at 40°C
Efficiency	65% minimum at full output
Hold - up time	10msec 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	50Mohm minimum from input to output
Inrush current	15AMPS @115 VAC or 30AMPS @ 230VAC 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	Meet CE standards
Safety requirements	Meets or exceeds(A)UL1950 (B) CSA C22.2 (C) TUV EN60950-1(D)IEC 950
Warranty	1 year

UNIT:mm

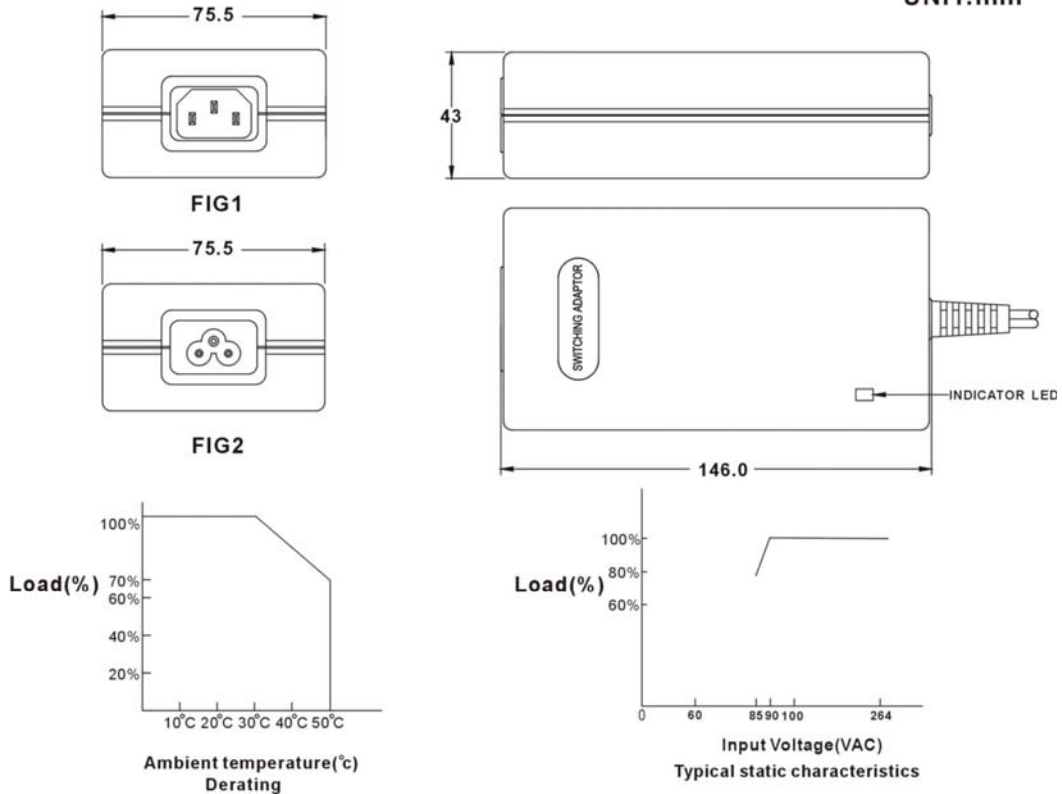


FIG1

Model name	Output#1		Output#2		Output#3		Maximum Output Power
	Vnom	I _{max}	Vnom	I _{max}	Vnom	I _{max}	
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		Output#2		Output#3		Maximum Output Power
	Vnom	I _{max}	Vnom	I _{max}	Vnom	I _{max}	
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 75)