



# P50A-D series

44~49W AC-DC dual output desktop



- 3 pole AC inlet IEC320-C14
- Class I power (with earth pin)
- Protections: short circuit/ over load/ over voltage
- Fix switching frequency and regulation
- LED indicator for power on
- Fully enclosed plastic case
- Topology: PWM 3882 circuit
- Approvals: UL/ CUL/ TUV/ CB/ CE
- 1 year warranty

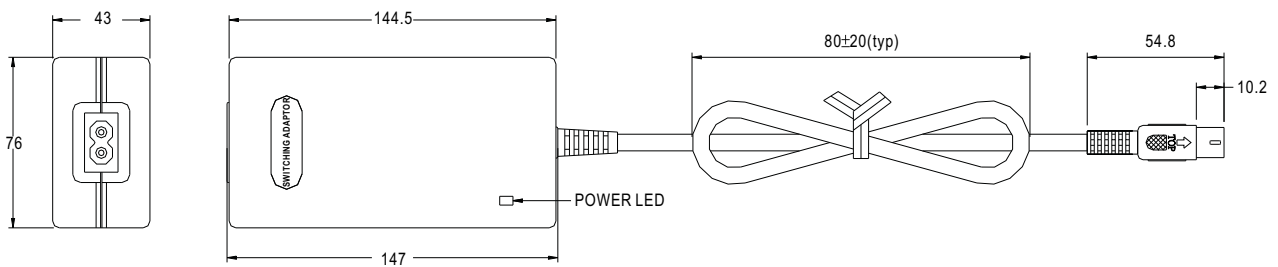
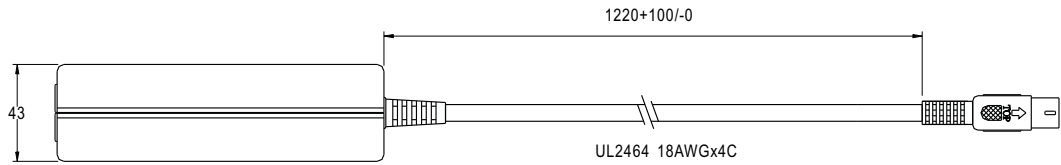


## SPECIFICATION

ORDER NO.		P50A13-R1B		P50A14-R1B		P50A16-R1B	
OUTPUT	SAFETY MODEL NO.	PSU50A-13		PSU50A-14		PSU50A-16	
	DC VOLTAGE <small>Note.2</small>	5V	12V	5V	15V	5V	24V
	RATED CURRENT	4A	2A	4A	1.8A	5A	1A
	CURRENT RANGE	0.5 ~ 4.0A	0 ~ 2.0A	0.5 ~ 4.0A	0.1 ~ 1.8A	0.5 ~ 5.0A	0.1 ~ 1.0A
	RIPPLE & NOISE (max.) <small>Note.3</small>	50mVp-p	100mVp-p	50mVp-p	100mVp-p	50mVp-p	100mVp-p
	VOLTAGE TOLERANCE <small>Note.4</small>	±6.0%	±10%	±6.0%	±10%	±6.0%	±10%
	LINE REGULATION <small>Note.5</small>	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%
	LOAD REGULATION <small>Note.6</small>	±5.0%	±9.0%	±5.0%	±9.0%	±5.0%	±9.0%
	RATED POWER	44W		47W		49W	
	VOLTAGE ADJ. RANGE	Fixed					
SETUP, RISE, HOLD TIME	1.5s, 50ms, 12ms at full load						
INPUT	VOLTAGE RANGE	90 ~ 264VAC					
	FREQUENCY RANGE	47~63Hz					
	EFFICIENCY (Typ.)	70%		74%		75%	
	AC CURRENT	1.6A / 100VAC					
	INRUSH CURRENT (max.)	COLD START < 40A peak @ 230VAC					
LEAKAGE CURRENT	< 0.75mA / 240VAC						
PROTECTION	OVER LOAD	Hiccup mode, reset: auto recovery					
	OVER VOLTAGE	110~140% of +5V rated output voltage					
ENVIRONMENT	WORKING TEMP., HUMIDITY	0~+30°C @ 100% load, 40°C @ 60% load, 20%~90% RH non-condensing					
	STORAGE TEMP., HUMIDITY	-20~+85°C, 10~95% RH					
	TEMP. COEFFICIENT	±0.03%/°C (0~50°C)					
	VIBRATION	10~500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes					
SAFETY & EMC	SAFETY STANDARDS	UL1950, CSA22.2, EN60950 Approved					
	EMI CONDUCTION & RADIATION	Compliance to EN55022(CISPR22) Class B					
	HARMONIC CURRENT	Compliance to EN61000-3-2,3 Class A					
	EMS IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,11, ENV50204, Light industry level, criteria A					
	WITHSTAND VOLTAGE	I/P-O/P:3KVAC, I/P-FG:1.5KVAC for 1min.					
ISOLATION RESISTANCE	I/P-O/P,I/P-FG:100M Ohms min.@ 500VDC						
OTHERS	MTBF	280K hrs min. MIL-HDBK-217F Part-count GB					
	DIMENSION	147*76*43mm (L*W*H)					
	PACKING	0.55Kgs/pcs, 36pcs/21Kgs/ CTN					
CONNECTOR	PLUG	Standard type R1B: DIN 5PIN for stock ; Other type available by customer requested					
	CABLE	Standard type AWM2464 18Awg*4c with shield 4ft for stock ; Other type available by customer requested					
NOTE	<p>1. All parameters are specified at 230VAC input, rated load, 25°C 70% RH. Ambient.</p> <p>2. DC voltage: The output voltage set at point measure by plug terminal &amp; 50% load.</p> <p>3. Ripple &amp; noise are measured at 20MHz by using a 12" twisted pair terminated with a 0.1uf &amp; 47uf capacitor.</p> <p>4. Tolerance: includes set up tolerance, line regulation, load regulation.</p> <p>5. Line regulation is measured from low line to high line at rated load.</p> <p>6. Load regulation is measured from 20% to 100% rated load.</p>						

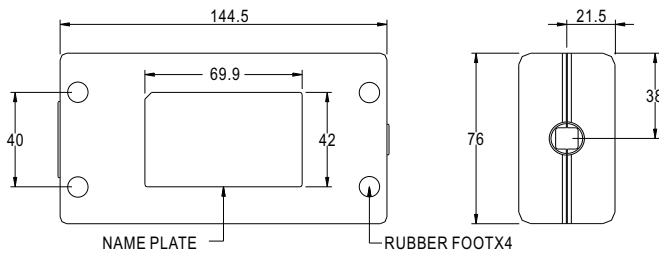
## Mechanical Specification

Unit:mm



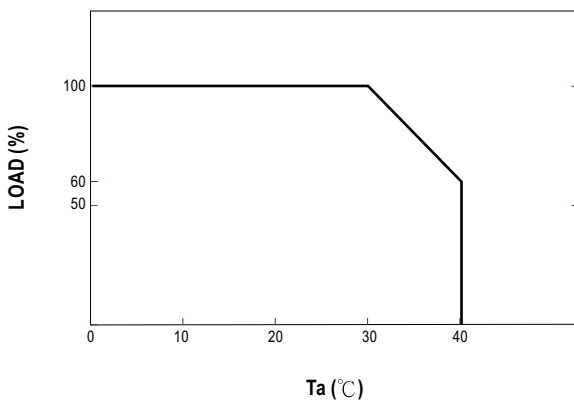
## Plug Assignment

Standard plug: R1B (option)



PIN NO	OUTPUT
1	COM
2	COM
3	+5VDC
4	COM
5	+Vout

## Derating Curve



## Static Characteristics

