



P50A-T series

46.5~50W AC-DC triple 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

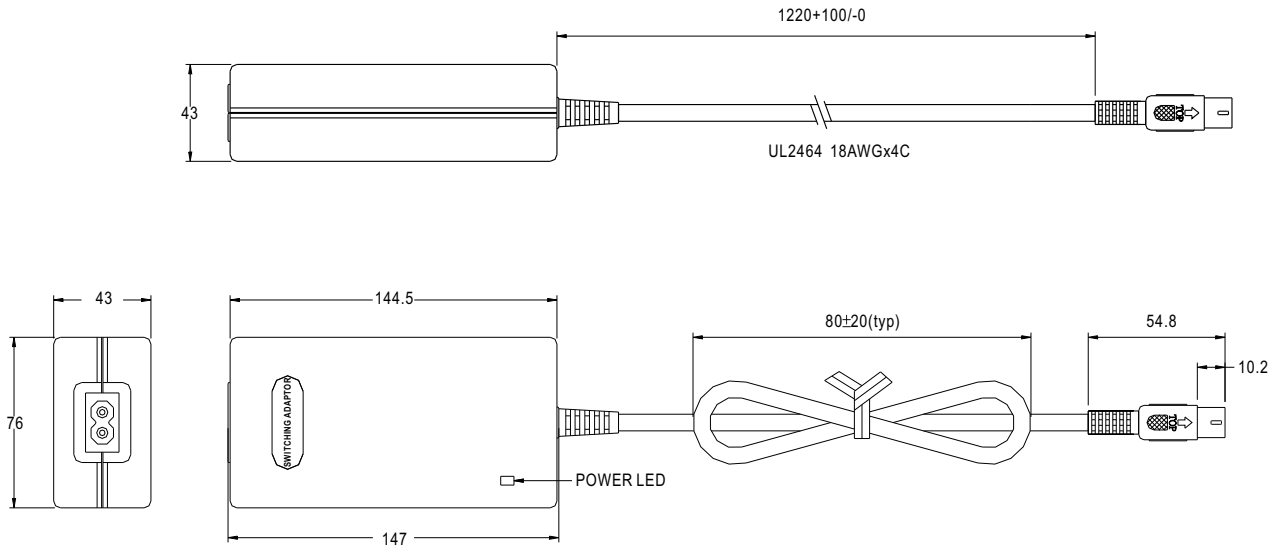


SPECIFICATION

ORDER NO.		P50A13A-R1B			P50A13D-R1B			P50A14E-R1B		
OUTPUT	SAFETY MODEL NO.	PSU50A-13A			PSU50A-13D			PSU50A-14E		
	DC VOLTAGE <small>Note.2</small>	5V	12V	-5V	5V	12V	-12V	5V	15V	-15V
	RATED CURRENT	4A	2A	0.5A	4A	2A	0.5A	4A	1.5A	0.5A
	CURRENT RANGE	0.5 ~ 4.0A	0.5 ~ 2.0A	0.1 ~ 0.5A	0.5 ~ 4.0A	0.5 ~ 2.0A	0.1 ~ 0.5A	0.5 ~ 5.0A	0.5 ~ 1.5A	0.1 ~ 0.5A
	RIPPLE & NOISE (max.) <small>Note.3</small>	50mVp-p	100mVp-p	100mVp-p	50mVp-p	100mVp-p	100mVp-p	50mVp-p	100mVp-p	100mVp-p
	VOLTAGE TOLERANCE <small>Note.4</small>	±6.0%	±10%	±12%	±6.0%	±10%	±12%	±6.0%	±10%	±12%
	LINE REGULATION <small>Note.5</small>	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%
	LOAD REGULATION <small>Note.6</small>	±5.0%	±10%	±10%	±5.0%	±10%	±10%	±5.0%	±10%	±10%
	RATED POWER	46.5W			50W			50W		
	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%			72%			74%		
	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 shiell 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 & 50% load.</p> <p>3. Ripple & noise are measured at 20MHz by using a 12" twisted pair terminated with a 0.1uf & 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>									

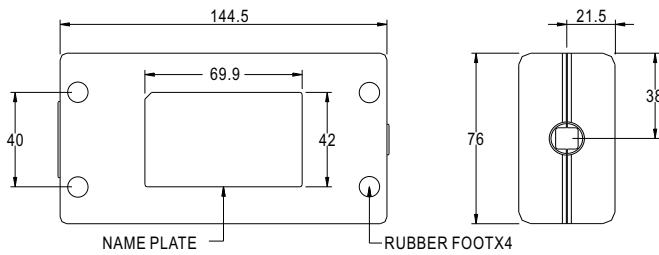
Mechanical Specification

Unit:mm



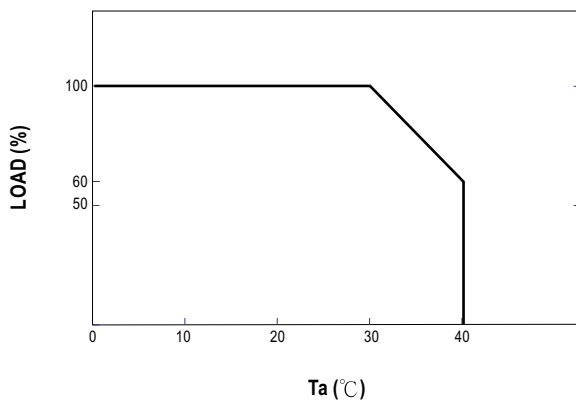
Plug Assignment

Standard plug: R1B (option)



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

Derating Curve



Static Characteristics

