MEAN WELL

24 ~ 50W AC-DC Single Output and Medical Type Desktop **MES50A series**

■ Features :

- Universal AC input / Full range
- 3 pole AC inlet IEC320-C14
- Class I power (with earth pin)
- Full output 3~48V safety approval
- Protections: Short circuit / Overload / Over voltage / Over temp.
- Fully enclosed plastic case
- Fix switching frequency and regulation
- Topology: Top switch circuit
- LED indicator for power on
- Approvals: UL / CUL / TUV / CB / CE
- 2 years warranty

SPECIFICATION

ORDER NO.		MES50A-0R1B	MES50A-1R1B	MES50A-1-1R1B	MES50A-2P1J	MES50A-3P1J	MES50A-4P1J	MES50A-5P1J	MES50A-6P1J	MES50A-8P1J
OUTPUT	SAFETY MODEL NO.	MES50A-0	MES50A-1	MES50A-1-1	MES50A-2	MES50A-3	MES50A-4	MES50A-5	MES50A-6	MES50A-8
	DC VOLTAGE Note.2	3.3V	5V	7.5V	9V	12V	15V	18V	24V	48V
	RATED CURRENT	7.5A	7.5A	5.33A	5.0A	4.16A	3.33A	2.77A	2.08A	1.04A
	CURRENT RANGE	0 ~ 7.5A	0 ~ 7.5A	0 ~ 5.33A	0 ~ 5.0A	0 ~ 4.16A	0 ~ 3.33A	0 ~ 2.77A	0 ~ 2.08A	0 ~ 1.04A
	RATED POWER	24.75W	37.5W	40W	45W	50W	50W	50W	50W	50W
	RIPPLE & NOISE (max.) Note.3	50mVp-p	50mVp-p	75mVp-p	90mVp-p	100mVp-p	100mVp-p	150mVp-p	150mVp-p	200mVp-p
	VOLTAGE ADJ. RANGE	Fixed								
	VOLTAGE TOLERANCE Note.4	±8.0%	±6.0%	±5.0%	±5.0%	±3.0%	±3.0%	±3.0%	±2.0%	±2.0%
	LINE REGULATION Note.5	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%
	LOAD REGULATION Note.6	±8.0%	±6.0%	±5.0%	±5.0%	±3.0%	±3.0%	±3.0%	±2.0%	±2.0%
	SETUP, RISE, HOLD UP TIME	300ms, 50ms, 16ms at full load								
INPUT	VOLTAGE RANGE	90 ~ 264VAC 135~370VDC								
	FREQUENCY RANGE	47~63Hz								
	EFFICIENCY (Typ.)	60%	67%	70%	72%	74%	75%	78%	78%	80%
	AC CURRENT	1.5A / 100VAC								
	INRUSH CURRENT (max.)	90A / 230VAC								
	LEAKAGE CURRENT (max.)	0.5mA / 240VAC								
PROTECTION	OVERLOAD	112 ~ 250% rated output power				150 ~ 350% rated output power				
		Protection type : Hiccup mode, recovers automatically after fault condition is removed								
	OVER VOLTAGE	110 ~ 150% rated output voltage								
		Protection type : Hiccup mode, recovers automatically after fault condition is removed								
	OVER TEMPERATURE	Tj 135℃ typically (IC1) detect on main control IC								
		Protection type : Shut down o/p voltage, recovers automatically after temperature goes down								
ENVIRONMENT	WORKING TEMP.	0 ~ +65℃ (Refer to output load derating curve)								
	WORKING HUMIDITY	20% ~ 90% RH non-condensing								
	STORAGE TEMP., HUMIDITY	-20 ~ +85℃, 10 ~ 95% RH								
	TEMP. COEFFICIENT	±0.03% / ℃ (0 ~ 50℃)								
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes								
SAFETY & EMC (Note. 7)	SAFETY STANDARDS	UL2601-1, IEC60601-1, EN60601-1 approved								
	WITHSTAND VOLTAGE	I/P-O/P: 5656VDC , I/P-FG: 2828VDC								
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG:100M Ohms / 500VDC / 25℃/ 70% RH								
	EMI CONDUCTION & RADIATION	Compliance to EN55011(CISPR11) class B								
	HARMONIC CURRENT	Compliance to EN61000-3-2,3								
	EMS IMMUNITY	Compliance to EN60601-1-2 (EN61000-4-2,3,4,5,6,8,11) light industry level, criteria A								
OTHERS	MTBF	-----								
	DIMENSION	147*75.5*43.2mm (L*W*H)								
	PACKING	0.55Kg ; 36pcs / 21Kg / CARTON								
CONNECTOR	PLUG	See page 2, Other type available by customer requested								
	CABLE	See page 2, Other type available by customer requested								
NOTE	1.All parameters are specified at 230VAC input, rated load, 25℃ 70% RH ambient. 2.DC voltage: The output voltage set at point measure by plug terminal & 50% load. 3.Ripple & noise are measured at 20MHz by using a 12" twisted pair terminated with a 0.1uf & 47uf capacitor. 4.Tolerence: includes set up tolerance, line regulation, load regulation. 5.Line regulation is measured from low line to high line at rated load. 6.Load regulation is measured from 0% to 100% rated load. 7.The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives.									

File Name:MES50A-SPEC 2007-05-14

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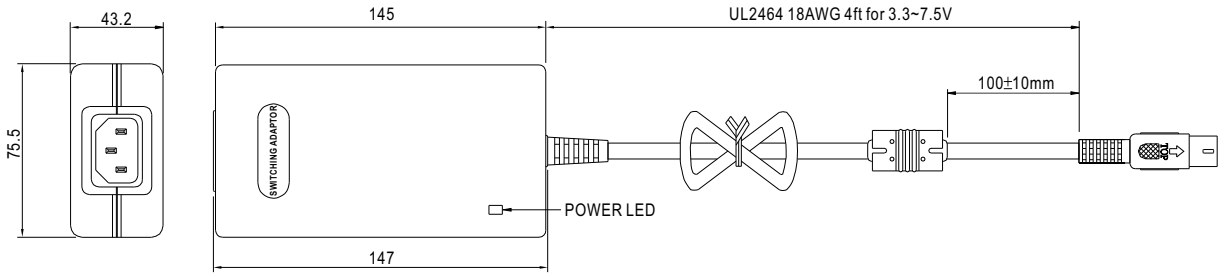
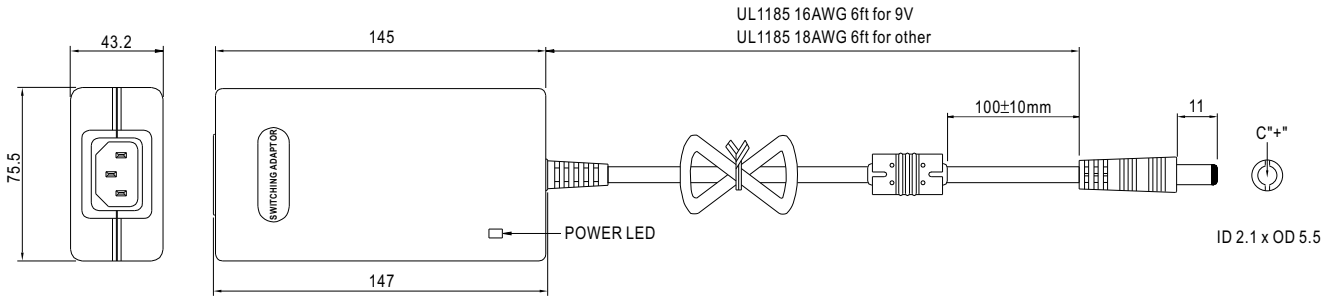
■ Mechanical Specification

Unit:mm

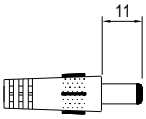




■ Plug Assignment

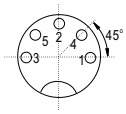
Standard plug: Others P1J (option)

P1J	
P/N	OUTPUT
CENTER	+



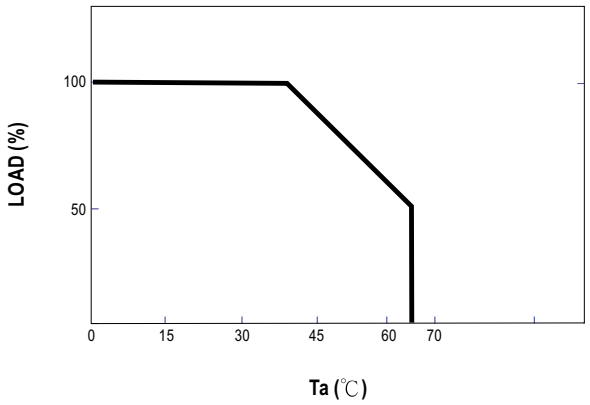
ID 2.1 x OD 5.5

Standard plug: 3.3V,5V,7.5V R1B (option)

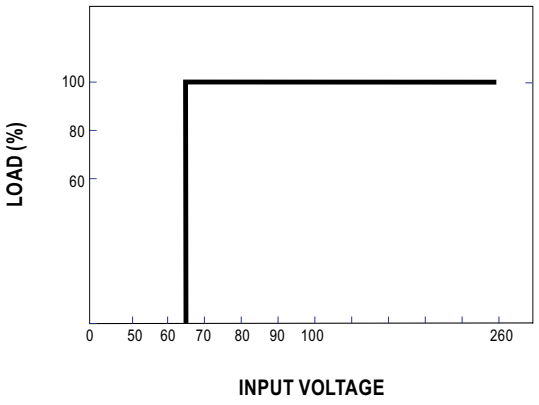


PIN NO	OUTPUT
1	COM
2	COM
3	+Vout
4	COM
5	+Vout

■ Derating Curve



■ Static Characteristics



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