

**SPECIFICATION** 



## Features:

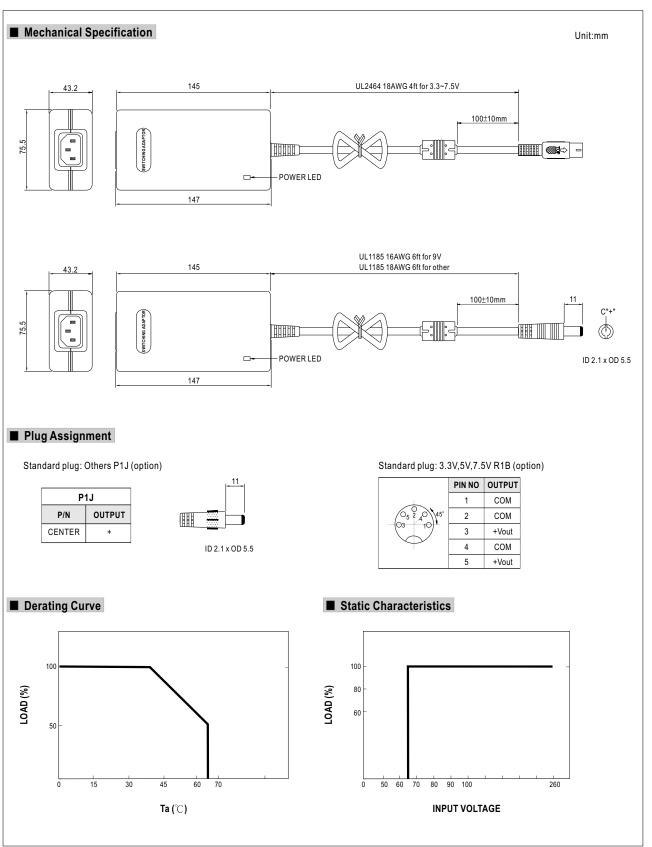
- Universal AC input / Full range
- 3 pole AC inlet IEC320-C14
- Class I power ( with earth pin)
- Full output 3~48V safety approval
- Protections: Short circuit / Overload / Over voltage / Over temp.
- Fully enclosed plastic case
- Fix switching frequency and regulation
- Topology: Top switch circuit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





ORDER NO.		MES50A-0R1B	MES50A-1R1B	MES50A-1-1R1B	MES50A-2P1J	MES50A-3P1J	MES50A-4P1J	MES50A-5P1J	MES50A-6P1J	MES50A-7P1J	MES50A-8P	
	SAFETY MODEL NO.	MES50A-0	MES50A-1	MES50A-1-1	MES50A-2	MES50A-3	MES50A-4	MES50A-5	MES50A-6	MES50A-7	MES50A-8	
OUTPUT	DC VOLTAGE Note.2	3.3V	5V	7.5V	9V	12V	15V	18V	24V	28V	48V	
	RATED CURRENT	7.5A	7.5A	5.33A	5.0A	4.16A	3.33A	2.77A	2.08A	1.78A	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 ~ 1.78A	0 ~ 1.04A	
	RATED POWER	24.75W	37.5W	40W	45W	50W	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	150mVp-p	200mVp-p	
	VOLTAGE ADJ. RANGE	Fixed										
	VOLTAGE TOLERANCE Note.4		±6.0%	±5.0%	±5.0%	±3.0%	±3.0%	±3.0%	±2.0%	±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%	±1.0%	
		±10%	±6.0%	±5.0%	±5.0%	±3.0%	±3.0%	±3.0%	±2.0%	±2.0%	±2.0%	
	SETUP, RISE, HOLD UP TIME			l				1 = 0.0 /0		=2.070		
INPUT	VOLTAGE RANGE	90 ~ 264VAC 135~370VDC										
	FREQUENCY RANGE	47~63Hz										
	EFFICIENCY (Typ.)	60%	67%	70%	72%	74%	75%	78%	78%	80%	80%	
	AC CURRENT			7070	1270	1 4 70	1370	1070	1070	0070	0070	
	INRUSH CURRENT (max.)	1.5A/100VAC										
	LEAKAGE CURRENT (max.)	90A / 230VAC										
PROTECTION	LEARAGE CORRERT (IIIax.)		0.5mA / 240VAC									
	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°C 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°C (Refer to output load derating curve)										
	WORKING HUMIDITY	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 (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°C / 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		3.2mm (L*W*I	•								
	PACKING	0.55Kg; 36pcs / 21Kg / CARTON										
CONNECTOR	PLUG	See page 2, Other type available by customer requested										
	CABLE	See page 2,	Other type a	vailable by cu	stomer reque	ested						
NOTE	1.All parameters are specified 2.DC voltage: The output volt 3.Ripple & noise are measure 4.Tolerence: includes set up 5.Line regulation is measure 6.Load regulation is measure 7.The power supply is conside	age set at po ed at 20MHz tolerance, line I from low line d from 0% to	bint measure by using a 1 e regulation, e to high line 100% rated	by plug term 2" twisted pa load regulation at rated load load.	inal & 50% l ir terminated on. d.	oad. with a 0.1uf	·		t be re-confir	med that it st	ill meets	





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