



Features:

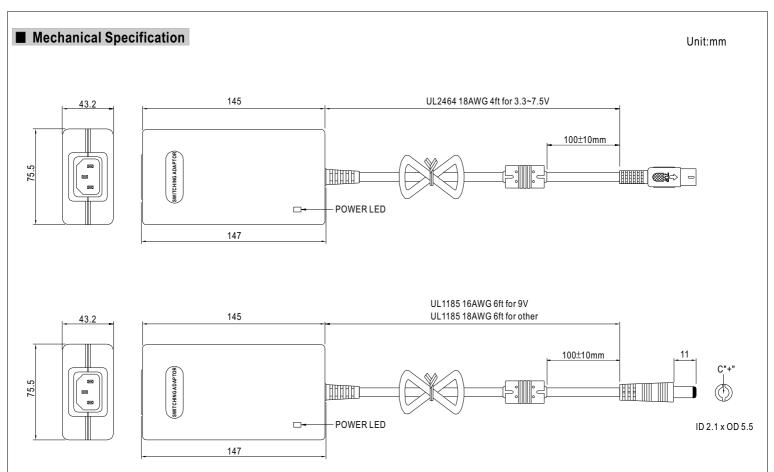
- · Universal AC input / Full range
- 3 pole AC inlet IEC320-C14
- Class I power (with earth pin)
- Full output 3~48V safety approval
- Protections: Short circuit / Overload / Over voltage / Over temp.
- · Fully enclosed plastic case
- · Fix switching frequency and regulation
- Topology: Top switch circuit
- · 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 MES5 SAFETY MODEL NO. MES50A-0 MES50A-1 MES50A-1-1 MES50A-2 MES50A-3 MES50A-4 MES50A-5 MES50A-6 MES50A-8 DC VOLTAGE 7.5V 24V 48V Note 2 3.3V 9V 12V 15V 18V 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 40W 45W 50W 50W 50W 50W 37.5W 50W RIPPLE & NOISE (max.) Note.3 50mVp-p 50mVp-p 75mVp-p 90mVp-p 100mVp-p 100mVp-p 150mVp-p 150mVp-p 200mVp-p **OUTPUT 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 **VOLTAGE RANGE** 90 ~ 264VAC 135~370VDC **FREQUENCY RANGE** 47~63Hz EFFICIENCY (Typ.) 60% 67% 70% 72% 74% 75% 78% 78% 80% **INPUT** 1.5A / 100VAC **AC CURRENT INRUSH CURRENT (max.)** 90A / 230VAC **LEAKAGE CURRENT (max.)** 0.5mA / 240VAC 112 ~ 250% rated output power 150 ~ 350% rated output power **OVERLOAD** Protection type: Hiccup mode, recovers automatically after fault condition is removed 110 ~ 150% rated output voltage **PROTECTION OVER VOLTAGE** Protection type: Hiccup mode, recovers automatically after fault condition is removed Tj 135°C typically (IC1) detect on main control IC **OVER TEMPERATURE** Protection type: Shut down o/p voltage, recovers automatically after temperature goes down 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 ENVIRONMENT **TEMP. COEFFICIENT** ±0.03% / °C (0 ~ 50°C) VIBRATION 10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes SAFETY STANDARDS UL2601-1, IEC60601-1, EN60601-1 approved WITHSTAND VOLTAGE I/P-O/P: 5656VDC, I/P-FG: 2828VDC SAFETY & **ISOLATION RESISTANCE** I/P-O/P, I/P-FG:100M Ohms / 500VDC / 25°C / 70% RH **EMC** Compliance to EN55011(CISPR11) class B **EMI CONDUCTION & RADIATION** (Note. 7) 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 **MTBF** OTHERS DIMENSION 147*75.5*43.2mm (L*W*H) **PACKING** 0.55Kg; 36pcs / 21Kg / CARTON **PLUG** See page 2, Other type available by customer requested CONNECTOR **CABLE** See page 2, Other type available by customer requested 1.All parameters are specified at 230VAC input, rated load, 25°C 70% RH ambient. NOTE 2.DC voltage: The output voltage set at point measure by plug terminal & 50% load.

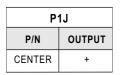
- 3.Ripple & noise are measured at 20MHz by using a 12" twisted pair terminated with a 0.1uf & 47uf capacitor.
- 4. Tolerence: includes set up tolerance, line regulation, load regulation.
- 5.Line regulation is measured from low line to high line at rated load. 6.Load regulation is measured from 0% to 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.

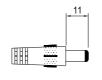




■ Plug Assignment

Standard plug: Others P1J (option)



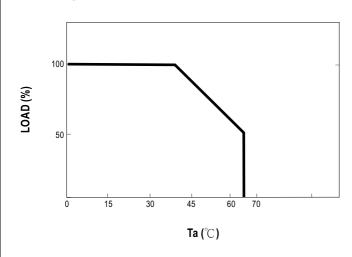


ID 2.1 x OD 5.5

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

05 2 40 45°	PIN NO	OUTPUT
	1	СОМ
	2	СОМ
	3	+Vout
	4	COM
	5	+Vout

■ Derating Curve



■ Static Characteristics

