


**■ Features :**

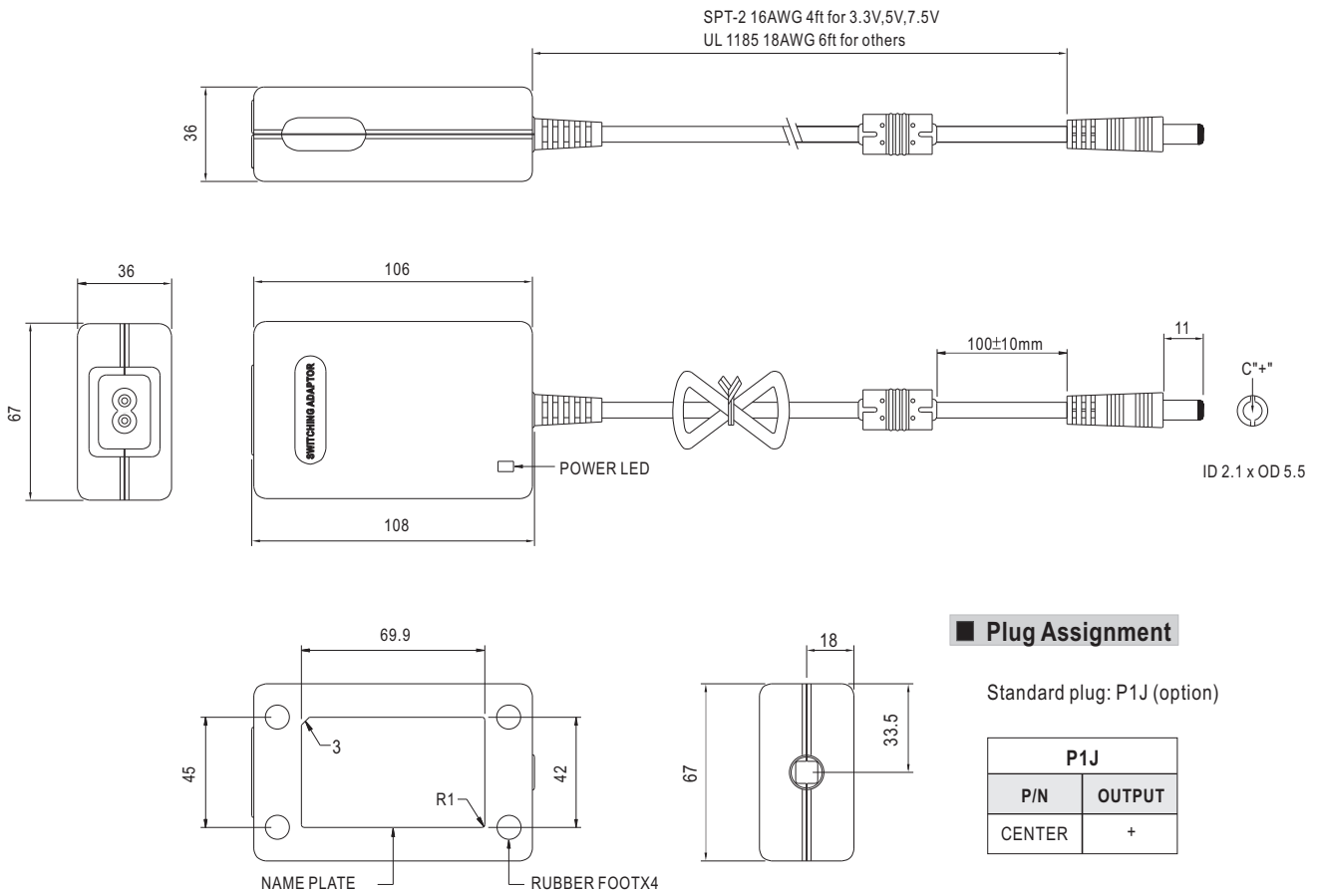
- Universal AC input / Full range
- 2 pole AC inlet IEC320-C8
- Class II power ( without earth pin)
- Full output 3~48V safety approval
- Protections: Short circuit / Overload / Over voltage / Over temp.
- Fully enclosed plastic case
- Medical safety approved (MOPP level)
- Fix switching frequency and regulation
- Topology: Top switch circuit
- LED indicator for power on
- Approvals: UL / CUL / TUV / CB / CE
- 2 years warranty


**SPECIFICATION**

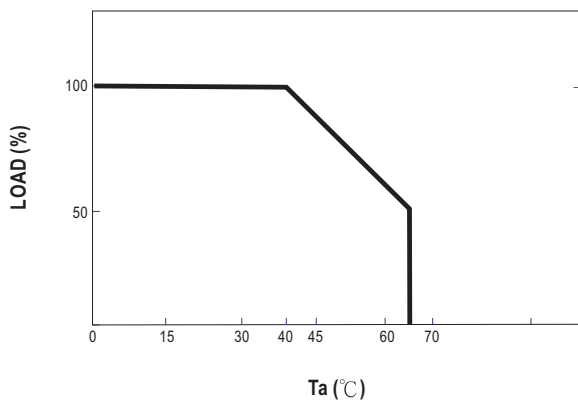
ORDER NO.	MES30B-0P1J	MES30B-1P1J	MES30B-1-1P1J	MES30B-2P1J	MES30B-3P1J	MES30B-4P1J	MES30B-5P1J	MES30B-6P1J	MES30B-8P1J		
<b>OUTPUT</b>	<b>SAFETY MODEL NO.</b>	MES30B-0	MES30B-1	MES30B-1-1	MES30B-2	MES30B-3	MES30B-4	MES30B-5	MES30B-6	MES30B-8	
	<b>DC VOLTAGE</b> Note.2	3.3V	5V	7.5V	9V	12V	15V	18V	24V	48V	
	<b>RATED CURRENT</b>	5A	5A	3.33A	3.33A	2.5A	2.0A	1.66A	1.25A	0.62A	
	<b>CURRENT RANGE</b>	0 ~ 5A	0 ~ 5A	0 ~ 3.33A	0 ~ 3.33A	0 ~ 2.5A	0 ~ 2.0A	0 ~ 1.66A	0 ~ 1.25A	0 ~ 0.62A	
	<b>RATED POWER</b>	16.5W	25W	25W	30W	30W	30W	30W	30W	30W	
	<b>RIPPLE &amp; NOISE (max.)</b> Note.3	30mVp-p	30mVp-p	40mVp-p	50mVp-p	50mVp-p	60mVp-p	70mVp-p	80mVp-p	100mVp-p	
	<b>VOLTAGE ADJ. RANGE</b>	Fixed									
	<b>VOLTAGE TOLERANCE</b> Note.4	±8.0%	±5.0%	±4.0%	±4.0%	±3.0%	±2.0%	±2.0%	±2.0%	±2.0%	
	<b>LINE REGULATION</b> Note.5	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	
	<b>LOAD REGULATION</b> Note.6	±8.0%	±5.0%	±4.0%	±4.0%	±3.0%	±2.0%	±2.0%	±2.0%	±2.0%	
<b>SETUP, RISE, HOLD UP TIME</b>	300ms, 50ms, 16ms at full load										
<b>INPUT</b>	<b>VOLTAGE RANGE</b>	90 ~ 264VAC 135 ~ 370VDC									
	<b>FREQUENCY RANGE</b>	47 ~ 63Hz									
	<b>EFFICIENCY (Typ.)</b>	56%	70%	72%	74%	76%	78%	78%	80%	82%	
	<b>AC CURRENT</b>	0.8A / 100VAC									
	<b>INRUSH CURRENT (max.)</b>	35A / 230VAC									
<b>LEAKAGE CURRENT (max.)</b> Note.7	Touch current < 80μA/264VAC										
<b>PROTECTION</b>	<b>OVERLOAD</b>	112 ~ 250% rated output power					150~350% rated output power				
		Protection type : Hiccup mode, recovers automatically after fault condition is removed									
	<b>OVER VOLTAGE</b>	110 ~ 140% rated output voltage									
	Protection type : Hiccup mode, recovers automatically after fault condition is removed										
<b>OVER TEMPERATURE</b>	Tj 135°C typically (IC1) detect on main control IC										
	Protection type : Shut down o/p voltage, recovers automatically after temperature goes down										
<b>ENVIRONMENT</b>	<b>WORKING TEMP.</b>	0 ~ +65°C (Refer to "Derating Curve")									
	<b>WORKING HUMIDITY</b>	20% ~ 90% RH non-condensing									
	<b>STORAGE TEMP., HUMIDITY</b>	-20 ~ +85°C, 10 ~ 95% RH									
	<b>TEMP. COEFFICIENT</b>	±0.03% / °C ( 0 ~ 50°C)									
<b>VIBRATION</b>	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes										
<b>SAFETY &amp; EMC (Note. 8)</b>	<b>SAFETY STANDARDS</b>	ANSI/AAMI ES60601-1, TUV EN60601-1, IEC60601-1 approved									
	<b>WITHSTAND VOLTAGE</b>	I/P-O/P: 5656VDC									
	<b>ISOLATION RESISTANCE</b>	I/P-O/P: 100M Ohms / 500VDC / 25°C / 70% RH									
	<b>EMC EMISSION</b>	Compliance to EN55011(CISPR11) class B, EN61000-3-2,3									
	<b>EMC IMMUNITY</b>	Compliance to EN60601-1-2 (EN61000-4-2,3,4,5,6,8,11), light industry level, criteria A									
<b>OTHERS</b>	<b>MTBF</b>	400Khrs min. MIL-HDBK-217F (25°C)									
	<b>DIMENSION</b>	108*67*36mm (L*W*H)									
	<b>PACKING</b>	0.3kg ; 54pcs/ 20kg / CARTON									
<b>CONNECTOR</b>	<b>PLUG</b>	Standard type P1J: 2.1φ * 5.5φ * 11mm, turning fork type, center positive for stock ; Other type available by customer requested									
	<b>CABLE</b>	SPT-2 16AWG 4FT for 3.3 ~ 7.5V ; UL1185 18AWG 6FT for 9 ~48V									
<b>NOTE</b>	1.All parameters are specified at 230VAC input, rated load, 25°C 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.Tolerance: 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.Touch current was measured from primary input to DC output. 8.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.										

## Mechanical Specification

Unit:mm



## Derating Curve



## Static Characteristics

