

# MPE-S060(-SB)-B(-C)

60W AC / DC



## FEATURES

- ✓ 80W with forced air cooling and 60W with convection-cooled of single output power supply.
- ✓ Compact size 2 x 4 inch.
- ✓ Class II, also class I with optional functional ground connected.
- ✓ Meets EMI CISPR/FCC class B.
- ✓ No-load power consumption < 0.5W.
- ✓ Optional +5Vsb & Remote on/off function.



## Models & Ratings

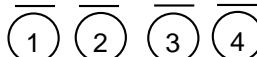
Model Number	Wattage (Rated / Max)	Output Voltage		Min. Current	Rated Current	Max. Current	Typical Efficiency
		V1	V2				
MPE-S063-B / -SB	60 W / 80 W	+12 V	+5 V	0 A	5.0 A	6.66 A	87%
MPE-S065-B / -SB	60 W / 80 W	+24 V	+5 V	0 A	2.5 A	3.33 A	89%
MPE-S066-B / -SB	60 W / 80 W	+48 V	+5 V	0 A	1.25 A	1.67 A	90%
MPE-S06A-B	60 W / 80 W	+5 V	+12 V	0 A	3.5 A	5 A	87%
Dimensions	101.6(L) x 50.8(W) x 30.0(H)mm, Tolerance +/-0.4mm.						

Total Output Power: Max. 80W with 7 CFM force air cooling; 60W convection cooled at 50°C environment temperature.

Note: 1.5VSB rated current is 0.1A, max. current is 0.5A.

2. MAX output current can be sustained if the total power doesn't exceed 60W.

## Model no. coding : M P E - S 0 6 0 - X - B - Y - Z



1	X=	Output set	2	B=	62368-1 Approved	3	Y=	Connector Type	4	Z=	Mechanical
	blank	Single output		blank	Molex Type Connector or equivalent		blank	Open frame			
	SB	Dual output (with +5Vsb & remote on/off function)		J	JST Type Connector or equivalent		C	Optional cover kit			

### Input

<b>Input Voltage</b>	● 90 ~ 264VAC
<b>Input Frequency</b>	● 47 ~ 63 Hz
<b>Input Current</b>	● 1.5A
<b>Inrush Current</b>	● 60A
<b>No-load power consumption</b>	● <0.5W
<b>Input Protection</b>	● Fuse: 2A /300VAC * 1pc

### Output

<b>Output Voltage</b>	● 12V, 24V, 48V
<b>Minimum Load</b>	● 0A
<b>Hold up Time</b>	● 16 mS
<b>Line Regulation</b>	● ±1.0 <sup>(V1)</sup> , ±1.0 <sup>(V2)</sup> %
<b>Load Regulation</b>	● ±1.0 <sup>(V1)</sup> , ±1.0 <sup>(V2)</sup> %
<b>Ripple &amp; Noise</b>	● 120 <sup>(+12V)</sup> , 240 <sup>(+24V)</sup> , 480 <sup>(+48V)</sup> , 50 <sup>(+5V)</sup>
<b>Overvoltage Protection</b>	● The build-in over voltage protection circuit will shut down the outputs to prevent damaging external circuits..
<b>Short Circuit Protection</b>	● Automatic recovery upon of overload condition
<b>Remote On/Off</b> (Only with 5Vsb)	● Turned on when the power On/Off pin is connected to secondary GND.

### General

<b>Isolation</b>	● IP to OP 3000 VAC
<b>Switching Frequenc</b>	● 65 KHZ

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## EMC: Immunity

<b>ESD</b>	● IEC 61000-4-2
<b>Radiated</b>	● IEC 61000-4-3
<b>EFT</b>	● IEC 61000-4-4
<b>Surges</b>	● IEC 61000-4-5
<b>Conducted</b>	● IEC 61000-4-6
<b>Power Magnetic</b>	● IEC 61000-4-8
<b>Dips and Interruptions</b>	● IEC 61000-4-11

## Environmental

<b>Operating Temperature</b>	● -20 ~ +70°C
<b>Storage Temperature</b>	● -40 ~ +85°C
<b>Relative Humidity</b>	● 5 ~ 95%RH
<b>Cooling</b>	● 7 CFM
<b>Operating / Non-operating Altitude</b>	● 3000 / 4000

Note: To start up at low temperature, when the  $V_{IP} < 115VAC$ , please set the rated load @ 10% for maximum; when  $115VAC < V_{IP} < 230VAC$ , please set the rated load @ 30% for maximum; when  $V_{IP} \geq 230VAC$ , there will be no specific limitation on rated load setting.

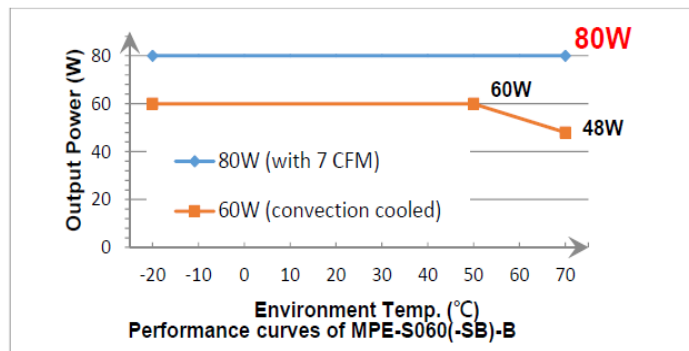
## EMC: Emissions

<b>Conducted</b>	● EN 55032 / CISPR 32 & FCC Part 15
<b>Radiated</b>	● EN 55032 / CISPR 32 & FCC Part 15
<b>Harmonic Current</b>	● EN 61000-3-2
<b>Voltage Fluctuations</b>	● EN 61000-3-3
<b>Voltage Flicker</b>	● EN 61204-3

## Safety Approvals

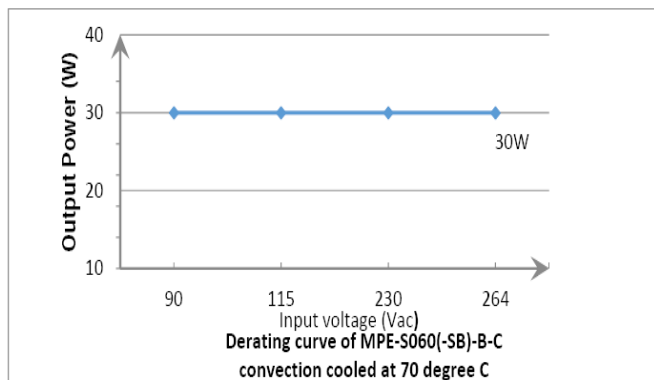
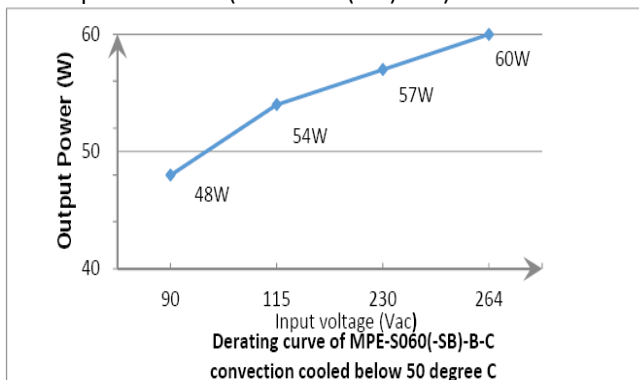
<b>TUV</b>	● EN 62368-1, 2 <sup>nd</sup> Edition EN 60950-1, 2 <sup>nd</sup> Edition
<b>CB</b>	● IEC 62368-1, 2 <sup>nd</sup> Edition IEC 60950-1, 2 <sup>nd</sup> Edition
<b>UL/cUL</b>	● UL 62368-1, 2 <sup>nd</sup> Edition, CSA C22.2 No. 62368-1-14, 2 <sup>nd</sup> Edition UL 60950-1, 2 <sup>nd</sup> Edition, CSA C22.2 No. 60950-1-07, 2 <sup>nd</sup> Edition

## Derating Curve



\*Test within horizontal installation, for other orientation, please confirm with us.

With optional cover (MPE-S060(-SB)-B-C)



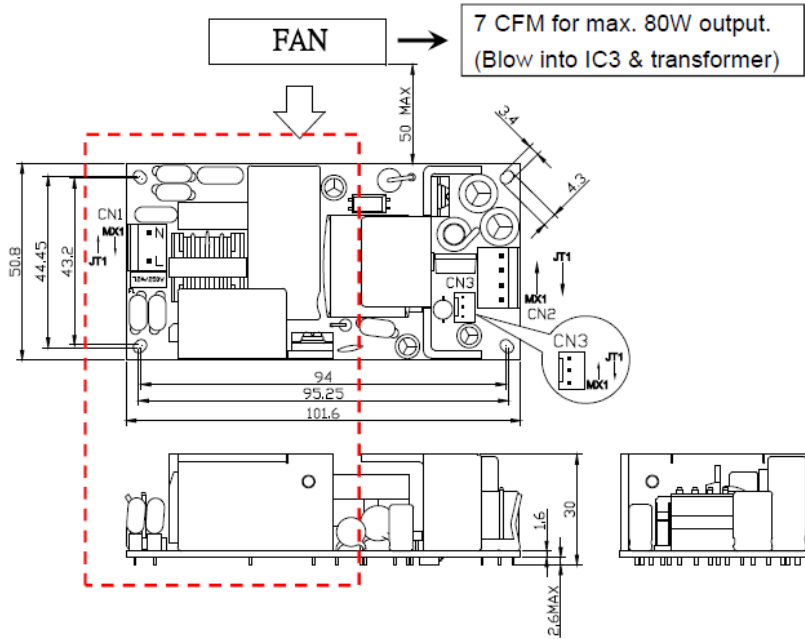
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## Mechanical

M/N: MPE-S060-SB-B

SIZE : 101.6(L) x 50.8(W) x 30.0(H)mm, Tolerance +/-0.4mm.



Note: The installation shall be kept in an isolation distance min. 2.8mm between the unit and the system chassis. There exist hazardous voltage in dotted area, keep insulating to avoid hazardous electric shock.

For m/n: MPE-S060(-SB)-B-C

Unit: mm Tolerance: +/- 0.4mm

