

MPE-S130(-SB)(-C)

130W AC / DC



FEATURES

- ✓ 130W fan cooling, 100W with convection-cooled of single output power supply.
- ✓ Compact size 2 x 4 inch and low profile.
- ✓ No-load power consumption < 0.5W.
- ✓ Optional +5Vsb and remote on/off function.
- ✓ Operable at 80°C.
- ✓ Compliant with CLASS I & CLASS II meets EMI CISPR/FCC class B.
- ✓ ITE safety standard IEC62368-1, UL62368-1 approved.



Models & Ratings

Model Number	Wattage (Rated / Max)	Output Voltage		Min. Current	Rated Current	Max. Current	Typical Efficiency
		V1	V2(With 5VSB)				
MPE-S133 / -SB	100 W / 130 W	+12 V	+5 V	0 A	8.33 A	10.8 A	87 %
MPE-S135 / -SB	100 W / 130 W	+24 V	+5 V	0 A	4.2 A	5.4 A	90 %
MPE-S136 / -SB	100 W / 130 W	+48 V	+5 V	0 A	2.1 A	2.7 A	90 %
Dimensions	101.6 (L) x 50.8 (W) x 34.2 (H) mm, Tolerance +/- 0.4mm.						

The 100W rated load is natural convection cooling, maximum load 130W is at 50°C with 10 CFM fan convection cooling, please see the derating curve.

Note 1: 5VSB rated current is 0.1A, max. current is 0.5A.

Model no. coding : M P E - S 1 3 0 - X - Y - Z



①

X=	Output set
blank	Single output
SB	Dual output (with +5Vsb & remote on/off function)

②

Y=	Connector Type
blank	Molex Type Connector or equivalent
J	JST Type Connector or equivalent

③

Z=	Mechanical
blank	Open frame
C	Optional cover kit

Input

Input Voltage	● 85 ~ 264VAC
Input Frequency	● 47 ~ 63 Hz
Input Current	● 3A
Inrush Current	● 30/60A
No-load power consumption	● <0.5W
Input Protection	● Fuse: 3.15A /250VAC * 1pc

General

Isolation	● IP to OP 3000 VAC IP to GND 1500 VAC
Switching Frequency	● 65 KHZ

Output

Output Voltage	● 12V,24V,48V
Minimum Load	● 0A
Hold up Time	● 10 / 50 mS
Line Regulation	● $\pm 1.0^{(V1)}$, $\pm 1.0^{(V2)}$ %
Load Regulation	● $\pm 1.0^{(V1)}$, $\pm 1.0^{(V2)}$ %
Ripple & Noise	● $100^{(+12V)}$, $100^{(+24V)}$, $200^{(+48V)}$, $50^{(5VSB)}$
Leakage Current	● 0.25 mA
Oversoltage Protection	● Around 110%~135% of O/P voltage, the built-in voltage protection circuit will auto recovery.
Short Circuit Protection	● Automatic recovery upon of overload condition
Remote On/Off (Only with 5Vsb)	● Turned on when the power On/Off pin is connected to secondary GND.

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EMC: Immunity

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

Environmental

Operating Temperature	● -20 ~ +80°C
Storage Temperature	● -40 ~ +85°C
Relative Humidity	● 5 ~ 95%RH
Cooling	● 10 CFM
Operating / Non-operating Altitude	● 5000m

Note:

- The temperature test is 100mm from the center of the top of the Power.
- 20°C low temperature start at 100W load at 100Vac.

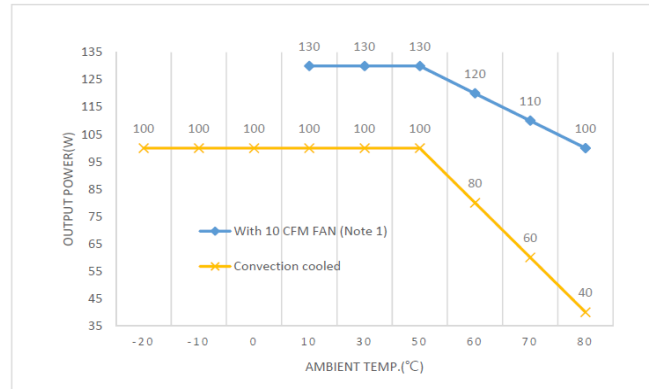
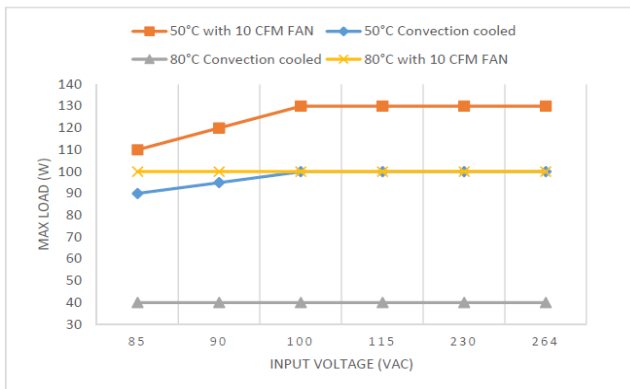
EMC: Emissions

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

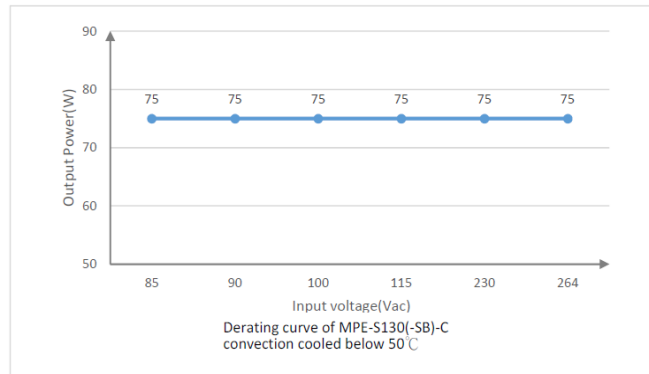
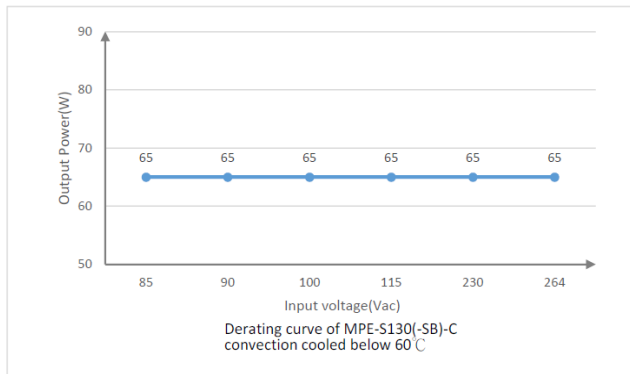
Safety Approvals

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

Derating Curve



Note: Air flow from IC3 to the body of PSU with distance 50mm maximum.
With optional cover (MPE-S130(-SB)-C)



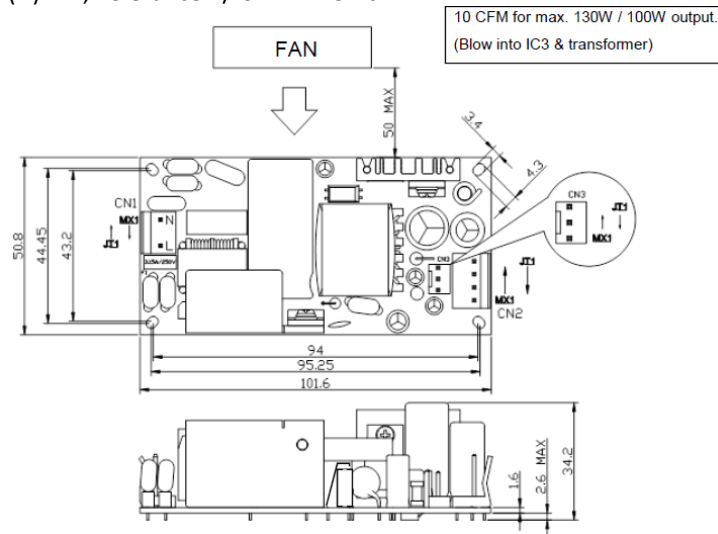
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Mechanical

M/N: MPE-S130-SB

SIZE : 101.6(L) x 50.8(W) x 34.2(H)mm, Tolerance +/-0.4mm. Unit: mm



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-S130(-SB)-C

Unit: mm Tolerance: +/- 0.4mm

