

MPE-S150

AC / DC



FEATURES

- ✓ 200W Peak power for 3.8s.
- ✓ 150W fan cooling, 100W with convection-cooled.
- ✓ size 2 x 4 inch, height 1 inch.
- ✓ Wide operating temperature -20~80°C.
- ✓ High efficiency up to 90%.
- ✓ No-load power consumption < 0.1W.
- ✓ Class II, also class I with optional functional ground connected.
- ✓ EN 62368-1(LVD) approved, designed to meet IEC 62368-1, IEC 60335-1, IEC 60601-1.
- ✓ Meets EMI CISPR / FCC class B.
- ✓ 5,000m operation altitude.

Models & Ratings

Model Number	Wattage (Rated / Max)	Output Voltage	Min. Current	Rated Current	Max. Current	Peak Current (for 3.8s)	Typical Efficiency
MPE-S153	100 W / 150 W	+12 V	0 A	8.33 A	12.5 A	16.67 A	90%
MPE-S155	100 W / 150 W	+24 V	0 A	4.17 A	6.25 A	8.33 A	90%
MPE-S156	100 W / 150 W	+48 V	0 A	2.08 A	3.125 A	4.16 A	90%
Dimensions	101.6 (L) x50.8 (W) x 25.4(H) mm, Tolerance +/- 0.5mm.						

Total Output Power: 100W with convection cooling, 150W with 10.8 CFM at 50°C.

Model no. coding : M P E – S 1 5 0 – X

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1	X=	Connector Type
	blank	JST Type Connector or equivalent

Input

Input Voltage	● 85 ~ 264VAC
Input Frequency	● 47 ~ 63Hz
Input Current	● 3.0 / 1.8
Inrush Current	● 30 / 60A
No-load power consumption	● <0.1W
Input Protection	● Fuse: 5A /250VAC * 2pcs

Output

Output Voltage	● +12V, +24V, +48V
Minimum Load	● 0 A
Hold up Time	● 9 / 28mS
Line Regulation	● ±0.5
Load Regulation	● ±1
Ripple & Noise	● 120 / 90 ^(+12V) , 240 / 120 ^(+24V) , 240 / 150 ^(+48V)
Overvoltage Protection	● The build-in over voltage protection circuit will Latch-off the outputs to prevent damaging external circuits, the trigger point is around 110%~130% of output voltage.
Short Circuit Protection	● Fully protected against output overload and short circuit. Automatic recovery upon of overload condition.

General

Isolation	● IP to OP 4000VAC
	● IP to GND 1800VAC
Switching Frequency	● 65 KHZ

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

EMC: Emissions

Conducted	● EN 55022/EN 55032 CISPR 32 & FCC Part 15
Radiated	● EN 55022/EN 55032 CISPR 32 & FCC Part 15
Harmonic Current	● EN 61000-3-2
Voltage Fluctuations	● EN 61000-3-3

Environmental

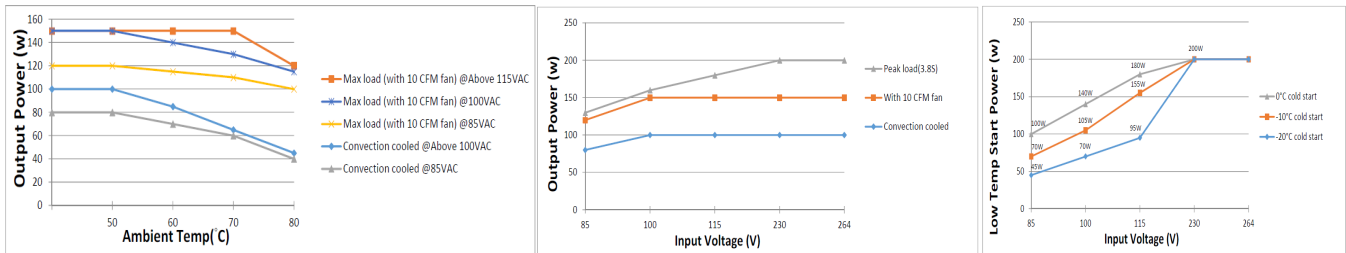
Operating Temperature	● -20 ~ +80°C
Storage Temperature	● -40 ~ +85°C
Relative Humidity	● 5 ~ 95%RH
Cooling	● 10.8 CFM
Operating Altitude	● 5000m

Safety Approvals

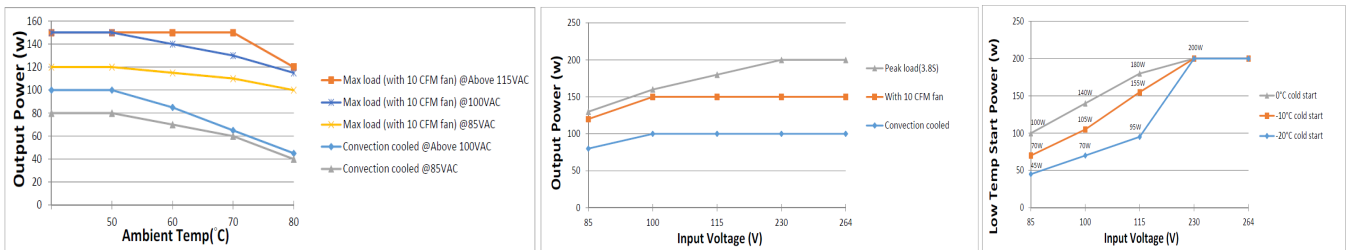
TUV	● Designed to meet EN 62368-1, 2nd Edition, EN 60335-1, EN 60601-1
CB	● Designed to meet IEC 62368-1, 2nd Edition, IEC 60335-1, IEC 60601-1
UL/cUL	● Designed to meet UL 62368-1, 2nd Edition, CSA C22.2 No. 62368-1-14, 2nd Edition, UL 60335-1, UL 60601-1
CE	● LVD EN 62368-1 approved.

Derating Curve

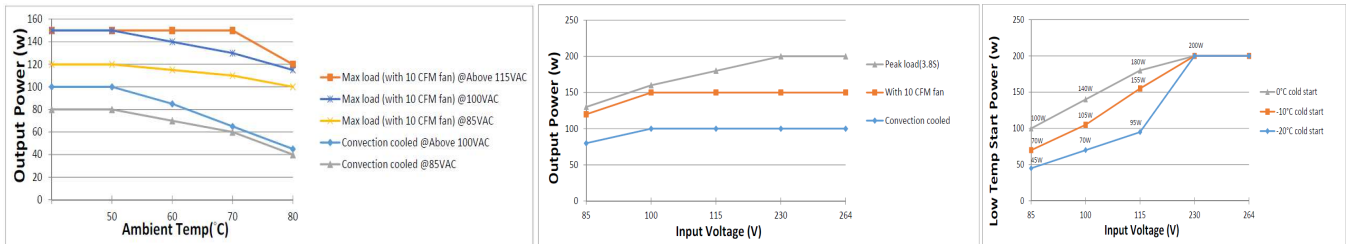
MPE-S153



MPE-S155



MPE-S156



MPE-S150

AC / DC

Mechanical

M/N: MPE-S150

SIZE : 101.6 (L) x 50.8 (W) x 25.4(H) mm, Tolerance +/- 0.5mm.

