

MPE-F060

60W AC / DC



FEATURES

- ✓ 120W Peak power for 3s at 230Vac ~ 264Vac.
- ✓ 60W with convection-cooled.
- ✓ size 2 x 4 inch, height 20mm.
- ✓ Wide operating temperature -20~70°C.
- ✓ High efficiency up to 90%.
- ✓ No-load power consumption < 0.1W.
- ✓ Class II, also class I with optional functional ground connected.
- ✓ IEC 62368-1, EN 62368-1, BS EN 62368-1 approved.
- ✓ Design to meet IEC 60335-1.
- ✓ Meets EMI CISPR / FCC class B.
- ✓ 5,000m operation altitude.



Models & Ratings

Model Number	Wattage (Rated / Max)	Output Voltage	Min. Current	Rated Current	Peak Current (for 3s)	Typical Efficiency
MPE-F063	60 W	+12 V	0 A	5.0 A	10 A	90%
MPE-F065	60 W	+24 V	0 A	2.5 A	5 A	90%
MPE-F066	60 W	+48 V	0 A	1.25 A	2.5 A	90%
Dimensions	101.6(L) x 50.8(W) x 20.0 mm, Tolerance +/-1mm.					

Output Power: 60W with convection cooling, Peak 120W.

Note:1. See the following performance curves for the detail.

Model no. coding:

MPE-F063-X

①

①	X=	Connector Type
	blank	JST Type Connector or equivalent

Input

- Input Voltage** ● 85 ~ 264VAC
- Input Frequency** ● 47 ~ 63 Hz
- Input Current** ● 1.5 / 0.75A
- Inrush Current** ● 55 / 110A
- No-load power consumption** ● <0.1W
- Input Protection** ● Fuse: 3.15A /250VAC * 1pc

General

- Isolation** ● IP to OP 3000 VAC
IP to GND 1800VAC
- Switching Frequency** ● 65 KHZ

Output

- Output Voltage** ● 12V, 24V, 48V
- Minimum Load** ● 0A
- Hold up Time** ● 10 / 28 mS
- Line Regulation** ● ±0.5
- Load Regulation** ● ±1.0
- Ripple & Noise** ● 120^(+12V), 240^(+24V), 480^(+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%~140% of output voltage.
- Short Circuit Protection** ● Automatic recovery upon of overload condition.

EMC: Immunity

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

Environmental

Operating Temperature	● -20 ~ +70°C
Storage Temperature	● -40 ~ +85°C
Relative Humidity	● 5 ~ 95%RH
Operating / Non-operating Altitude	● 5000m

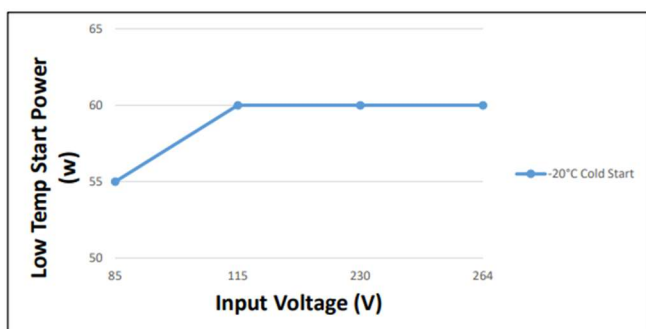
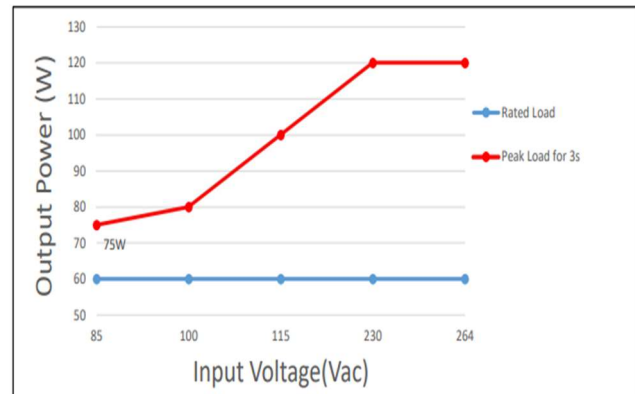
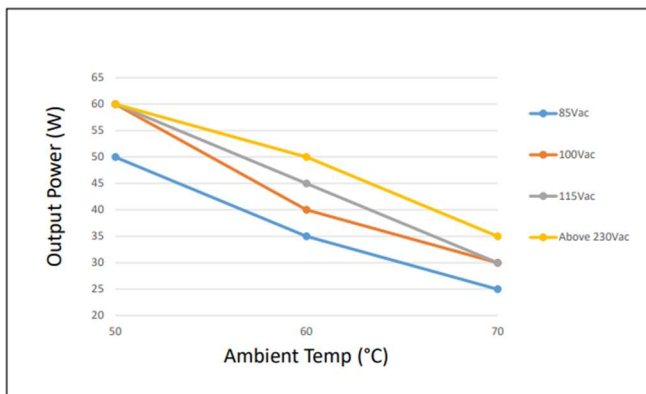
EMC: Emissions

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

Safety Approvals

TUV	● IEC 62368-1, 3rd Edition, EN 62368-1, 3rd Edition EN 60335-1
CB	● IEC 62368-1, 3rd Edition IEC 60335-1
UL/Cul	● UL 62368-1, 3rd Edition, CAN/CSA C22.2 No. 62368- 1:19, 3rd Edition/UL 60335-1
CE(LVD), UKCA	● EN 62368-1, 3rd Edition, BS EN 62368-1, 3rd Edition

Derating Curve



Mechanical

Unit: mm

SIZE : 101.6(L) x 50.8(W) x 20.0 mm, Tolerance +/-1mm.

