

# CB



### FEATURES

- ✓ 120W single fanless output, optional 5Vsb ON/OFF and PG / PF function with -SB model.
- ✓ Max. 135W with 13.6 CFM force air-cooling.
- ✓ Designed to meet IEC 60601-1-2 4th ed. EMC.
- ✓ Designed to meet medical standard EN / UL 60601-1 3.1 Edition.
- ✓ Class II design, can be used for homecare equipment.
- ✓ Meets EMI CISPR/FCC class B without any metal plate shielding.
- ✓ 2 x MOPP
- ✓ No load power consumption is less than 0.4W at input 115VAC.

### Models & Ratings

Model Number	Wattage (Rated / Max)	Output Voltage	Min. Current	Rated Current	Max. Current	Typical Efficiency
MPM-S123	120 W / 135 W	+12 V	0 A	10 A	11.25 A	87%
MPM-S125	120 W / 135 W	+24 V	0 A	5 A	5.6 A	90%
MPM-S126	120 W / 135 W	+48 V	0 A	2.5 A	2.8 A	91%
MPM-S127	120 W / 135 W	+36 V	0 A	3.3 A	3.75 A	90%
Dimensions	127 (L) x 76.2 (W) x 40.7 (H) mm, Tolerance +/- 0.5mm.					

Total Output Power: Max. 120W convection cooled, above 121~135W with 13.6 CFM forced air-cooling at 50°C environment temperature. Please see detail performance curves as below.

### Model no. coding : M P M - S 1 2 X - Y - Z



①

X =	Output (V)
3	+12
5	+24
7	+36
6	+48

②

Y =	Output set
Blank	Single output
SB	With +5Vsb & remote on/off function and PG/PF signal

③

Z =	Input Connector Type	Output Connector Type
blank	Molex Type Connector or equivalent	Molex Type Connector or equivalent
J	JST Type Connector or equivalent	JST Type Connector or equivalent

### Input

Input Voltage	● 85 ~ 264VAC
Input Frequency	● 47 ~ 63 Hz
Input Current	● 3.0/1.5A
Inrush Current	● 30/60A
No-load power consumption	● 0.4/0.5W
Input Protection	● Fuse: 3.15A /250VAC * 2pc

### Output

Output Voltage	● 12V, 24V, 36V, 48V
Minimum Load	● 0A
Hold up Time	● 10/50 mS(Min.) 12/75 mS(Typ.)
Line Regulation	● ±0.5%
Load Regulation	● ±1.0% <sup>(+12V)</sup> , ±0.5% <sup>(+24V, +36V, +48V)</sup>
Ripple & Noise	● 120 <sup>(+12V)</sup> , 240 <sup>(+24V)</sup> , 180 <sup>(+36V)</sup> , 240 <sup>(+48V)</sup> , 50 <sup>(+5V)</sup> mV
Leakage Current	● 100/300 uA
Overvoltage Protection	● The build-in over voltage protection circuit will shut down the outputs to prevent damaging external circuits.
Short Circuit Protection	● Automatic recovery upon of overload condition

### General

Isolation	● IP to OP 4000 VAC IP to GND 1500 VAC
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
Dips and Interruptions	● IEC 61000-4-11

### Environmental

Operating Temperature	● -20 ~ +70°C
Storage Temperature	● -40 ~ +85°C
Relative Humidity	● 5 ~ 95%RH
Cooling	● 13.6 CFM
Operating	● 5000m

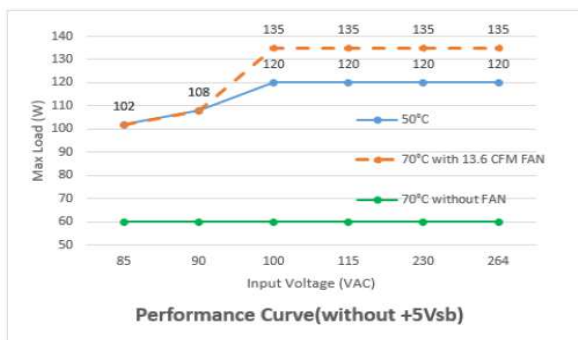
### EMC: Emissions

Conducted	● EN 55011 / CISPR 11 & FCC Part 18
Radiated	● EN 55011 / CISPR 11 & FCC Part 18
Harmonic Current	● EN 61000-3-2
Voltage Fluctuations	● EN 61000-3-3

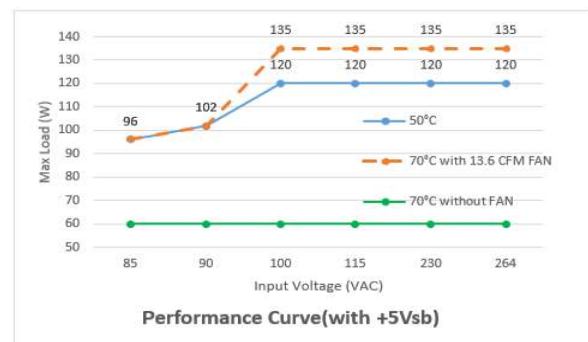
### Safety Approvals

TUV	● EN 60601-1: 2006+A11+A1+A12
CB	● IEC 60601-1: 2005+CORR. 1: 2006+CORR. 2: 2007+A1: 2012
UL/cUL	● ANSI/AAMI ES60601-1, CAN/CSA-C22. 2 No. 60601-1

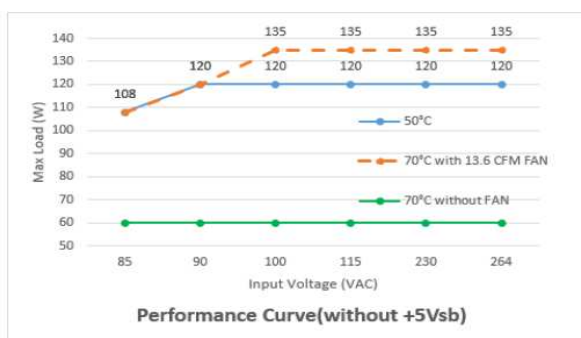
### Derating curve



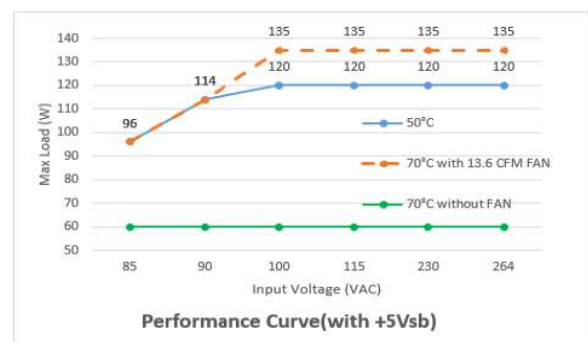
MPE-S123



MPE-S123-SB



MPE-S125. MPE-S126. MPE-S127



MPE-S125-SB. MPE-S126-SB. MPE-S127-SB

### Mechanical Details

SIZE : 127.0(L) x 76.2(W) x 40.7(H)mm, Tolerance +/-0.5mm

