



## FEATURES

- ✓ Configurable Power Supply.
- ✓ 650W medical power supply with force air cooling. Peak power up to of 750W.
- ✓ Optional digital function to read PSU data by USB connector.
- ✓ IP to OP 2xMOPP; IP to Earth 1xMOPP.
- ✓ Automatically fan speed control to reduce the noise.
- ✓ Built in -12V & +5V stand by with reduce ON/OFF function.
- ✓ PG / PF signal.

## Models & Ratings

Model Number	Wattage (Rated / Max)	Output Voltage			Min. Current	Rated Current			Peak Current	Typical Efficiency
		V1	V2	V3		V1	V2	V3		
MPM-U653	650 W / 750 W	+12 V	+5.1 V	-12 V	0 A	54.2 A	2 A	0.2 A	62.5 A	91%
MPM-U655	650 W / 750 W	+24 V	+5.1 V	-12 V	0 A	27.1	2 A	0.2 A	31.3 A	92%
MPM-U656	650 W / 750 W	+48 V	+5.1 V	-	0 A	13.6	2 A	-	15.7 A	93%
Dimensions	229 (L) x 127 (W) x 65 (H) mm, Tolerance +/- 0.5mm.									

Note:

1. Open frame type can be 450W(AC115V) at 50°C convection cooled environment.
2. Peak duration is 1,000 ms max, input voltage must exceed 100VAC.
3. Initial setting voltage is at input 115VAC and all outputs at 60% rated load.
4. Capacity of configurable slots: 2 slots.

## Model no. coding : M P M – U 6 5 0 – X – Y – Z

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Version Code	
D	Digital Version
B	Basic Version

2 Please reference MPM-U650 Series Long Form.

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Mechanical Code	
A	With AC inlet, Suffix for Open-frame Construction
B	With AC inlet, Suffix for Fan and cover type Construction
C	With terminal block, Suffix for Open-frame Construction
D	With terminal block, Suffix for Fan and cover type Construction

## Input

Input Voltage	● 85 ~ 264VAC
Input Frequency	● 47 ~ 63 Hz
Input Current	● 4/12.5A
Inrush Current	● 30/60A
Power Factor	● 0.92
Input Protection	● Fuse: 15A /250VAC * 2pc

## Output

Output Voltage	● 12V, 24V, 48V
Minimum Load	● 0A
Hold up Time	● 16/20 mS
Line Regulation	● ±1.0
Load Regulation	● ±1.0 <sup>(V1)</sup> , ±4.0 <sup>(V2)</sup> , ±10.0 <sup>(V3)</sup>
Ripple & Noise	● Please reference MPM-U650 Series Long Form.
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
Remote On/Off	● The power supply will be turned on when the power On/Off pin is connected to secondary GND.

## General

Isolation	● IP to OP 3000 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	● 7 CFM
Operating / Non-operating Altitude	● 3000/4000m

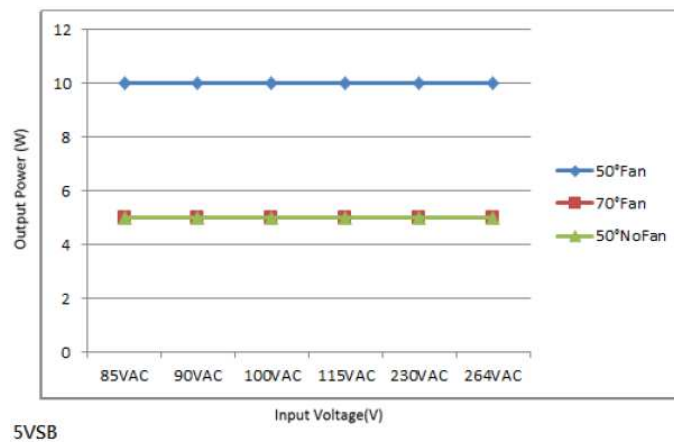
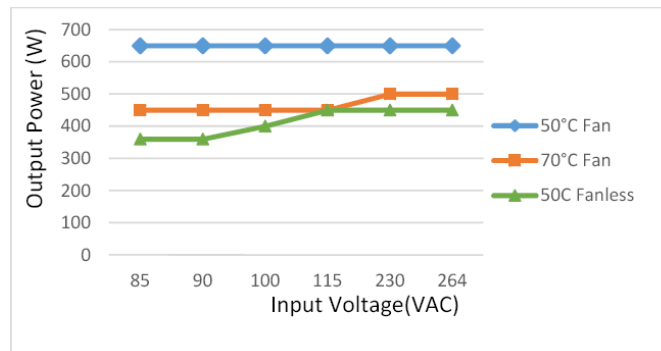
### EMC: Emissions

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

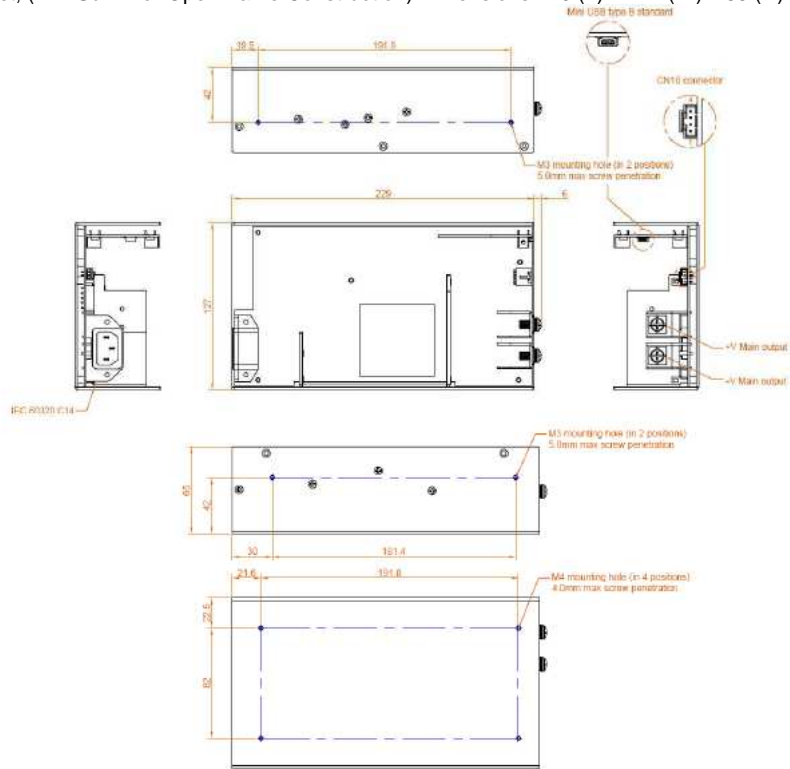


5VSB

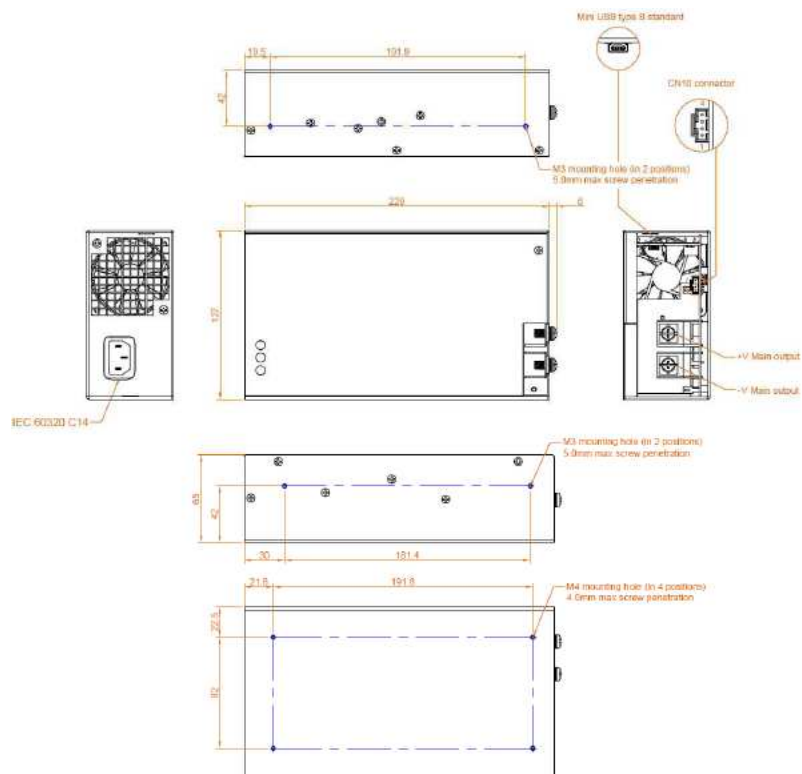
Performance curves of MPM-U650

## Mechanical Details

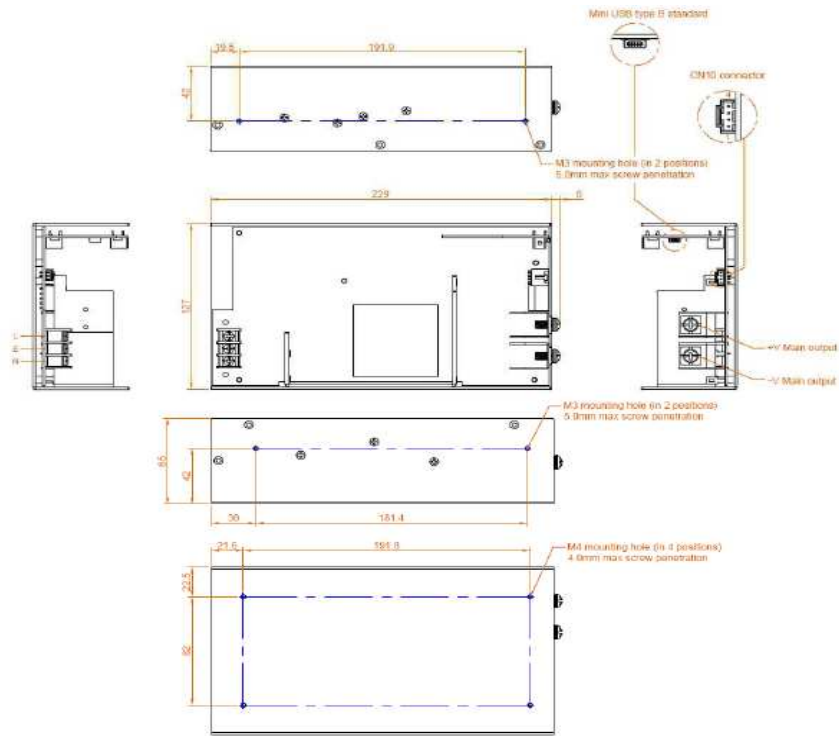
MPM-U650-DXX-A: With AC inlet, ("-A" Suffix for Open-frame Construction) Dimensions 229 (L) x 127 (W) x 65 (H) mm.



MPM-U650-DXX-B: With AC inlet, ("-B" Suffix for Fan and cover type Construction) Dimensions 229 (L) x 127 (W) x 65 (H) mm.



MPM-U650-DXX-C: With terminal block, ("C" Suffix for Open-frame Construction) Dimensions 229 (L) x 127 (W) x 65 (H) mm.



MPM-U650-DXX-D: With terminal block, ("D" Suffix for Fan and cover type Construction) Dimensions 229 (L) x 127 (W) x 65 (H) mm.

