



## FEATURES

- ✓ 100W with forced air cooling and 70W convection cooled isolated DC/DC converter cooled.
- ✓ Fully isolated Primary to Secondary; Primary to Earth Ground.
- ✓ Input polarity reversed protection.
- ✓ Compact size 2 x 4 inch.

## Models & Ratings

Model Number	Wattage (Rated / Max)	Output Voltage	Min. Current	Rated Current	Max. Current	Typical Efficiency
MPD-S103	70 W / 100 W	+12 V	0 A	5.8 A	8.3 A <sup>(Note.1)</sup>	88%
MPD-S105	70 W / 100 W	+24 V	0 A	2.9 A	4.2 A <sup>(Note.1)</sup>	90%
MPD-S108	70 W / 100 W	+19 V	0 A	3.6 A	5.2 A <sup>(Note.1)</sup>	88%
Dimensions	101.6 (L) x 50.8 (W) x 32.3 (H) mm, Tolerance +/- 0.5mm.					

Total Output Power: 100W with at 50°C environment temperature. <sup>(Note.2)</sup>

Note:

1. When output current above rated output current, it has to force air cooling 13.6 CFM.
2. The total DC continuous power shall be kept with 70 W at input from 18 V to 32 DC; 65 W at input from 12 to 17.9 VDC; 55W at input from 9-11.9VDC. convection cooled. When above 70 W with 13.6 CFM force air cooling.

## Model no. coding : M P D – S 1 0 X

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X =	Output (V)
3	+12
5	+24
8	+19

### Input

- Input Voltage** ● 9 ~ 32VDC
- Input Current** ● 14A
- Inrush Current** ● 12A

### General

- Isolation** ● IP to OP 500 VAC  
● IP to GND 500 VAC
- Switching Frequency** ● 65 KHZ

### Output

- Output Voltage** ● 12V,24V,19V
- Minimum Load** ● 0A
- Line Regulation** ● ±1.0
- Load Regulation** ● ±1.0
- Ripple & Noise** ● 120<sup>(+12V)</sup>, 240<sup>(+24V)</sup>, 120<sup>(+19V)</sup>
- Overvoltage Protection** ● The build-in over voltage protection circuit will shut down the outputs to prevent damaging external circuits.
- Short Circuit Protection** ● The power supply will go into hiccup mode against short circuit or over load conditions, and will auto-recovery while fault conditions moved.

### 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

### Environmental

Operating Temperature	● -10 ~ +70°C
Storage Temperature	● -20 ~ +75°C
Relative Humidity	● 10 ~ 95%RH
Cooling	● 13.6 CFM
Operating	● 5000m

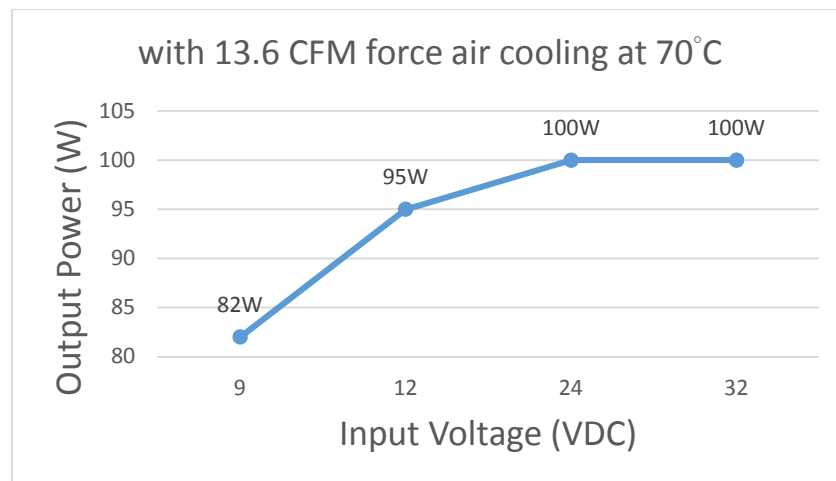
### EMC: Emissions

Conducted	● EN 55032 / CISPR 32 CISPR 22 & FCC Part 15
Radiated	● EN 55032 / CISPR 32 CISPR 22 & FCC Part 15

### Safety Approvals

TUV	● EN 60950-1: 2006+A2 2013
CB	● IEC 60950-1: 2005+A2: 2013, 2 <sup>nd</sup>
UL/cUL	● UL 60950-1, 2 <sup>nd</sup> Edition, 2007- 03-27, CSA C22.2 No.60950- 1-07, 2 <sup>nd</sup> Edition, 2007-03

### Derating curve



Performance curves (with fan) at 70°C

## Mechanical Details

SIZE : 101.6(L) x 50.8(W) x 32.3(H)mm, Tolerance +/-0.5mm.

