MPSM-5600V

600 Watt

- **Ideal for medical image processing**
- **Complies with IEC/EN60601-1 – 3rd Edition**
- **High efficiency up to 85 %**

The new PC power supply MPSM-5600V is designed for medical applications. At 600 watts output it is ideally suited for image processing systems equipped with a powerful graphics card. Its modern switching design is dimensioned for maximum energy savings. Even in partial tipping operation its efficiency will not drop below 82 %. High-quality parts ensure long availability of the powered system.

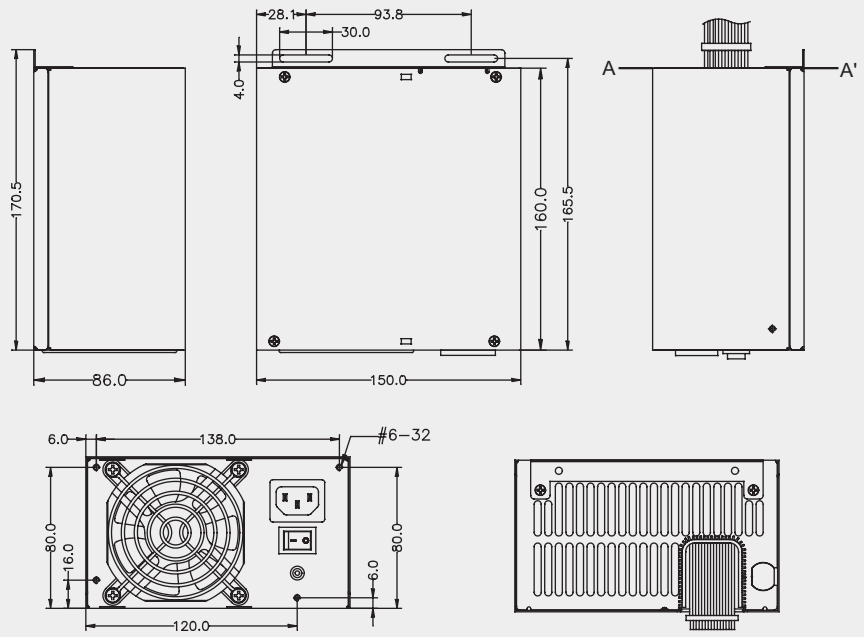
Technical data	
Input voltage	90…264 V AC, active PFC
Input frequency	47…63 Hz
Input current	10 A (115 V AC) / 5 A (230 V AC)
Inrush current	20 A (115 V AC) / 40 A (230 V AC)
Efficiency	82…85 %
Standby consumption	<1.6 W
Hold up time	>16 ms
Power-Good-Signal	Switch on delay 100…500 ms Switch off delay 1 ms
Protection	Short circuit protection: At each output, switch off / +5 V_{sb}, auto-recovery Overload protection: 120…160 %, switch off Overvoltage protection: +3.3 V (+3.6…+4.3 V), +5 V (+5.6…+6.5 V), +12 V (+13.2…+15 V)
Insulation voltage	Input / chassis 3100 V DC Input / output 4242 V DC
Earth leakage current	<300 µA, 115 V AC / 230 V AC
Safety / EMC	TÜV (IEC/EN60601-1 3rd Edition), UL (UL60601-1), CAN/CSA C22.2 No. 601.1-M90, CE
Operating temperature	0…+40 °C
Storage temperature	-40…+80 °C
Operating humidity	20…80 % RH, non-condensing
Dimensions (W x D x H)	150 x 160 x 86 mm ±0,5 mm
Weight (net)	2.4 kg

Article No.	Output voltage	Output current min	max	Load regulation	Ripple & Noise
MPSM-5600V	+3.3 V	0.5 A	25 A	±5 %	50 mV
	+5 V	0.5 A	25 A	±5 %	50 mV
	+12 V	2 A	45 A	±5 %	120 mV
	-12 V	0 A	0.8 A	±5 %	150 mV
	+5 V_{sb}	0.1 A	3,.5 A	±5 %	50 mV

Max. output power is 600 W, combined output power at +3.3 V and +5 V must not exceed 40 A. Ripple and Noise was measured by a 20 MHz bandwidth limited oscilloscope with connected 220 µF electrolytic capacitor and 0.1 µF ceramic capacitor at each output.During a cross regulation test we recommend to keep the channel with higher output load at 80 % of its max. power and the channel with lower output load at 20 % of its max. power.

As a power component this PSU is for assembly purposes only and must not be operated in unassembled condition. The final assembly has to comply with the valid EMC and safety standards.

Drawing MPSM-5600V



Tolerance ±0.5mm

Cable harness MPSM-5600V

ATX / EPS, 550 mm
20+4 pin

EPS, 550 mm

P4, 550 mm

PCI Express, 500 mm
6+2 Pin

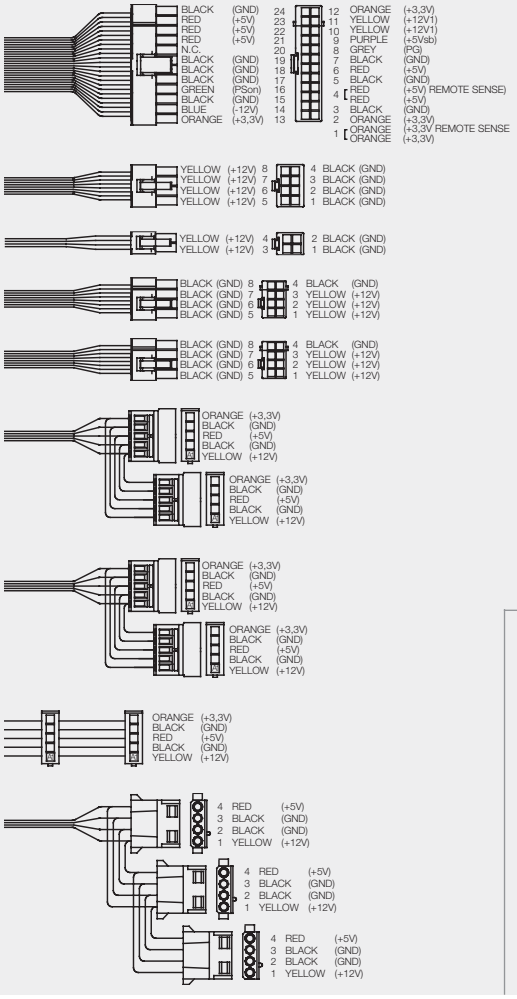
PCI Express, 500 mm
6+2 Pin

SATA, 450 mm
SATA, 150 mm

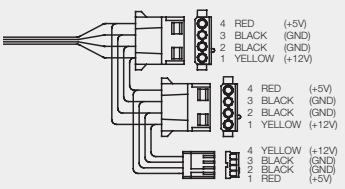
SATA, 450 mm
SATA, 150 mm

SATA 90°, 350 mm
SATA 90°, 500 mm

HD, 400 mm
HD, 150 mm
HD, 150 mm



HD, 400 mm
HD, 150 mm
FDD, 150 mm



Toleranz ±20 mm

PC PSUs

Specification is subject to change without notice. Errors excepted. Status as at: 16.12.2011