

MHG2-6300P-B2

300 Watt

- Low noise <27 dB(A)!
- Complies with IEC/EN60601-1 – Edition 3.1
- Operating temperature -10...+50 °C

The PC power supply MHG2-6300P-B2 is designed for medical applications and in keeping with the IEC/EN60601-1 and UL60601-1 standards. By its integrated temperature-controlled fan regulation it is quiet and, thus, ideal for medical practices and in surgeries. The MHG2-6300P-B2 provides an external grounding bolt, by which the PC can be kept at the same potential capacity as other components when required.



Technical data	
Input voltage	90...264 V AC, active PFC
Input frequency	47...63 Hz
Input current	7 A (115 V AC) / 3.5 A (230 V AC)
Inrush current	65 A (115 V AC) / 125 A (264 V AC)
Efficiency	≥75 %, 230 V AC / ≥70 %, 115 V AC (full load)
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: 110...150 %, switch off Overvoltage protection: +3.3 V (+3.9...+4.3 V), +5 V (+5.7...+6.5 V), +12 V (+13.6...+15 V)
Insulation voltage	Input / Chassis 3100 VDC (1x MOPP) Input / Output 4242 VDC (2x MOPP)
Earth leakage current	<300 µA, 115 V AC / 230 V AC
Safety / EMC	TÜV (IEC/EN60601-1 Edition 3.1), UL (UL60601-1), CE
Temperature	Operating: -10...+50 °C / Storage: -40...+80 °C
Max. operation altitude	3000 m
MTBF	>183 000 h according to MIL-HDBK-217F at +25 °C with fan
Humidity	Operating: 10...85 % RH, non-condensing / Storage: 10...90 % RH, non-condensing
Dimensions (WxDxH)	150 x 140 x 86 mm ±0.5 mm
Weight (net)	1.95 kg

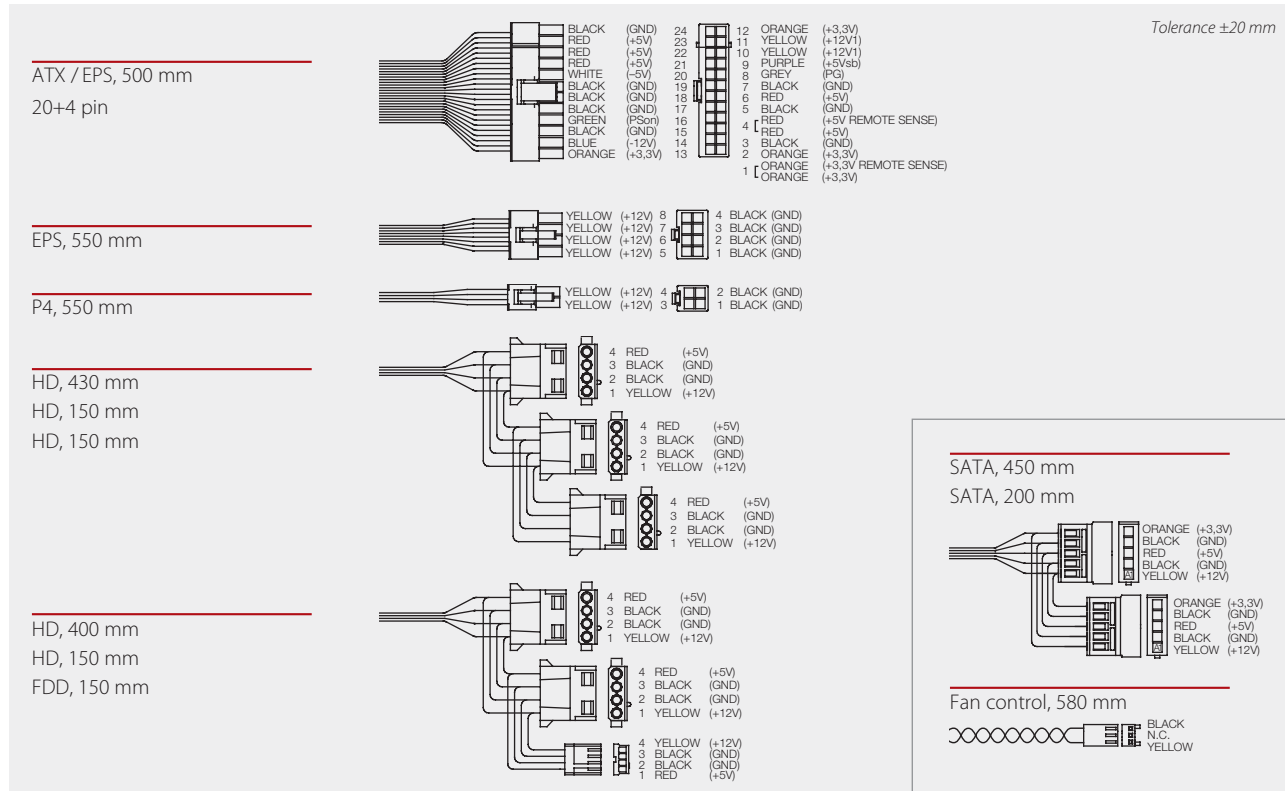
Product specific data	
Loudness	0...200 W / 24.2 dB(A), 300 W / 26.5 dB(A)

Article No.	Output voltage	Output current		Load regulation	Ripple & Noise
		min	max		
MHG2-6300P-B2	+3.3 V	0 A	28 A	±5 %	50 mV
	+5 V	1 A	35 A	±5 %	50 mV
	+12 V	1 A	22 A	±5 %	120 mV
	-12 V	0 A	0.8 A	±5 %	150 mV
	-5 V	0 A	0.5 A	±5 %	150 mV
	+5 V _{sb}	0.1 A	2 A	±5 %	50 mV

Max. output power is 300 W, combined output current at +3.3 V and +5 V must not exceed 45 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.

Cable harness MHG2-6300P-B2



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