

MP1S-5300V-B1

300 Watt

- Compact design
- TÜV approval up to +50°C
- Silent due to fan regulation

Thanks to its high efficiency and a temperature-regulated fan the noise produced by the MP1S-5300V-B1 is minimal. Its robust construction with high-quality components ensures a long service-life and a high reliability. Designed for ambient temperatures up to +50°C, the MP1S-5300V-B1 also convinces by its excellent regulation properties. It has the medical safety approvals IEC/EN60601-1 and UL60601-1.



PC PSUs

Technical data	
Input voltage	90...264 V AC, active PFC
Input frequency	47...63 Hz
Input current	4.5 A (115 VAC) / 2 A (230 VAC)
Inrush current	70 A (115 VAC) / 140 A (230 VAC)
Efficiency	80...84 % (115 VAC, 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: +5 V, +12 V, switch off /+3.3 V, -12 V, +5 V _{sb} , auto recovery Overload protection: 110...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) Overcurrent protection: +3.3 V (18.7...27.2 A), +5 V (19.8...28.8 A), +12 V (26.4...38.4 A)
Insulation voltage	Input/Output 4000 V AC (2xMOPP) Input/FG 1500 V AC (1xMOPP)
Insulation resistance	Input/Output and Input/FG 100 MΩ at 500 VDC test voltage
Leakage current	<300 μA, 115 VAC/230 VAC
Safety / EMC	IEC/EN60601-1 3rd Edition, UL60601-1 3rd Edition, CCC, CE
Temperature	Operating: 0...+50 °C / Storage: -20...+80 °C
Max. operation altitude	3000 m
MTBF	>187 000 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)	81.5 x 190 x 40.3 mm ±0.5 mm
Weight (net)	1.2 kg

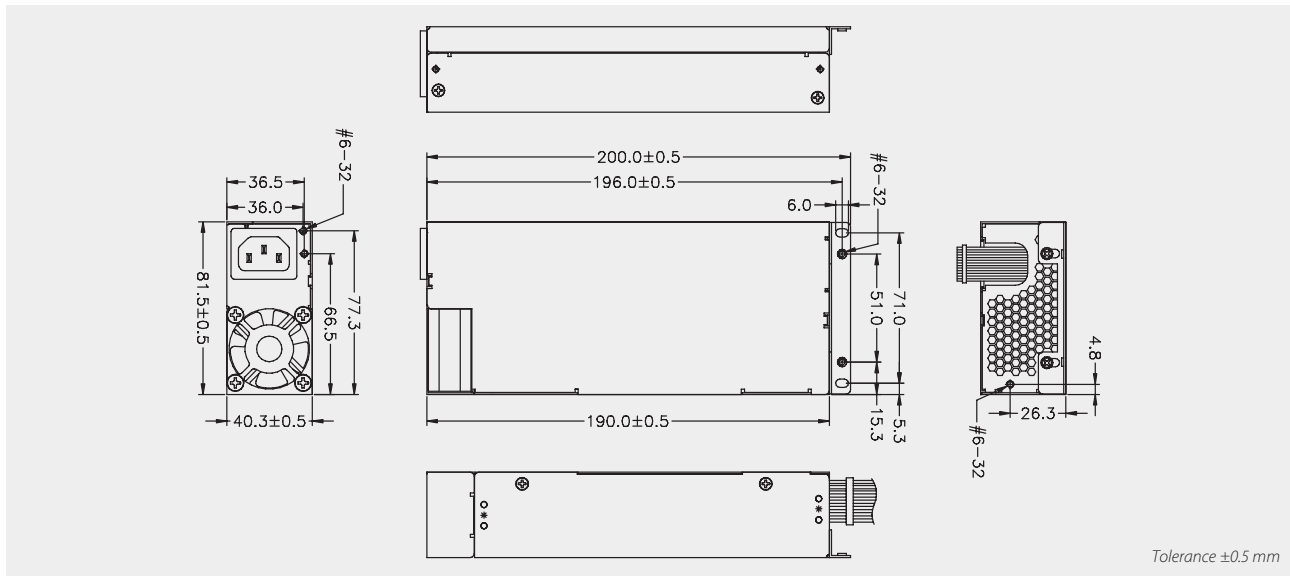


X1-184 (optional)
Mounting-kit for installation in standard 1U chassis (100x190 mm)
Front plate and backside bracket

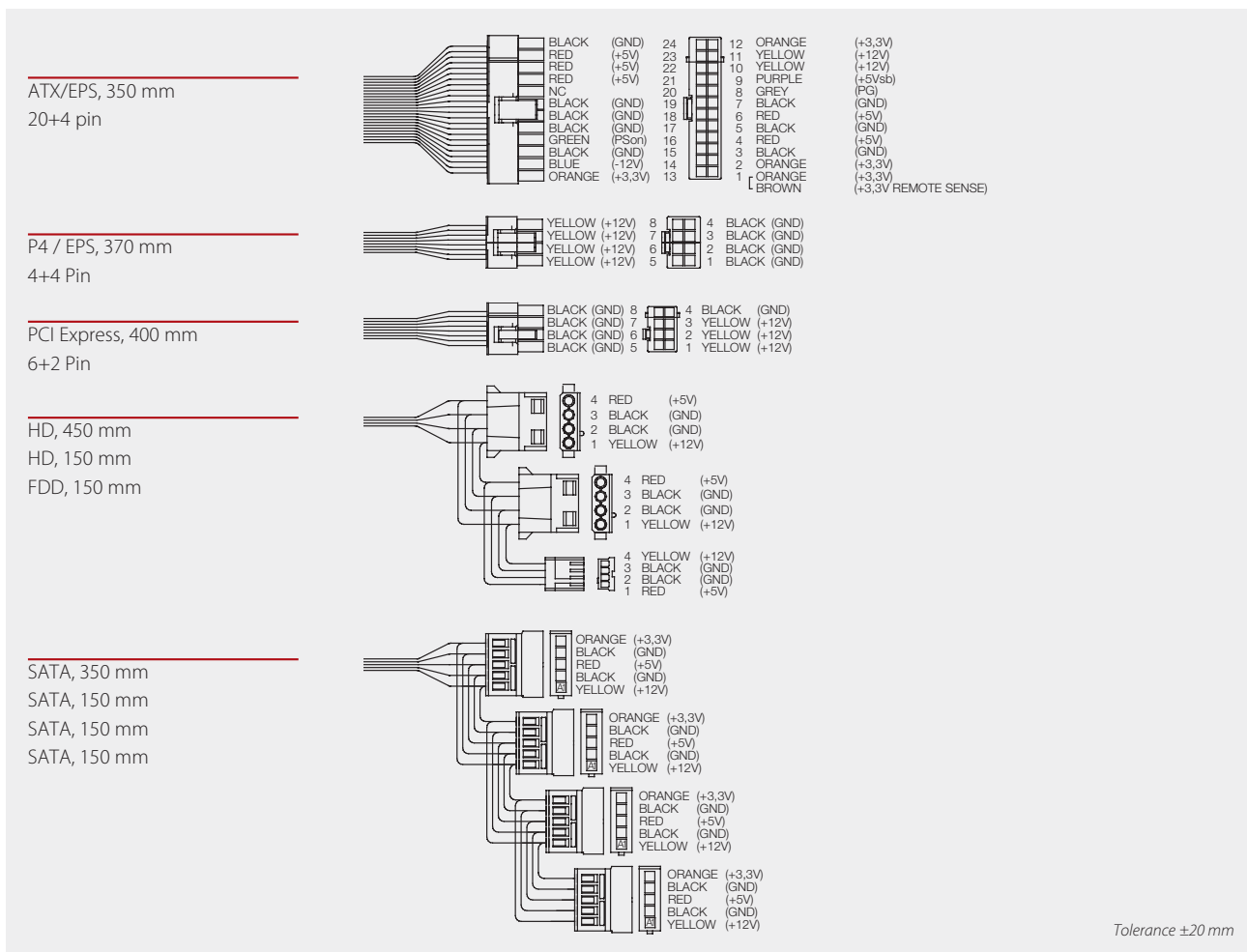
Article No.	Output voltage	Output current min	Output current max	Load regulation	Ripple & Noise
MP1S-5300V-B1	+3.3 V	0 A	17 A	±5 %	60 mV
	+5 V	0 A	18 A	±5 %	60 mV
	+12 V	0 A	24 A	±5 %	120 mV
	-12 V	0 A	0.3 A	±10 %	120 mV
	+5 V _{sb}	0 A	2.5 A	±5 %	60 mV

Max. output power is 300 W. Combined power at +3.3 V and +5 V is max. 120 W. Ripple and Noise was measured by a 20 MHz bandwidth limited oscilloscope with connected 220 μF electrolytic capacitor and 100 nF ceramic capacitor at each output. 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 MP1S-5300V-B1



Cable harness MP1S-5300V-B1



Optional accessory >>> For detailed information please visit our website www.bicker.de and refer to the article number.

Article No.	Description
X1-184	Mounting kit for installation in standard 1U chassis (100x190 mm), consisting of front plate and backside bracket
X1-132	Power cord with European IEC-60320-C13 connector