

SS-500ES-B1

500 Watt



- Attractive price-performance ratio
- Silent 80mm fan
- High efficiency

The SS-500ES-B1 is a reliable PC power supply for less demanding industrial and office systems. With its excellent price-performance ratio it is a popular solution for applications where costs are a critical factor. Due to the very precise adjustment of the fan regulation and the 80mm fan noise development is kept extremely low. With its high efficiency the power supply operates in a most energy-saving way over the whole range of performance.



AC input

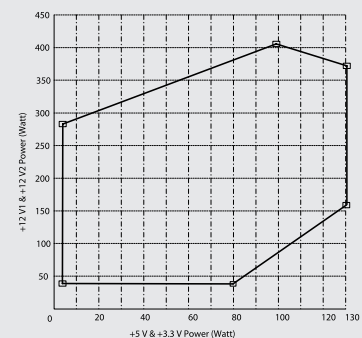
Technical data

Input voltage	90...264 V AC
Input frequency	47...63 Hz
Input current	9 A max
Inrush current	100 A (264 V AC)
Efficiency	82.8...85.6 %
Standby consumption	<1 W (OFF-Mode) / 230 V AC
Hold up time	>10 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: 135 %, Switch off Overvoltage protection: +3.3 V (+3.76...+4.3 V), +5 V (+5.74...+7 V), +12 V (+13.4...+15.6 V)
Earth leakage current	<3.5 mA, 250 V AC
Safety / EMC	CB, TÜV, UL, CCC, CE
Operating temperature	0...+50 °C
Derating	From +40...+50 °C, 2 % / °C
MTBF	100 000 h at +25 °C, without fan
Storage temperature	-40...+85 °C
Operating humidity	20...80 %, non-condensing
Dimensions (WxDxH)	150 x 140 x 86 mm ±0.5 mm
Weight (net)	1.5 kg

Product specific data

Sound level	<35 dB(A)
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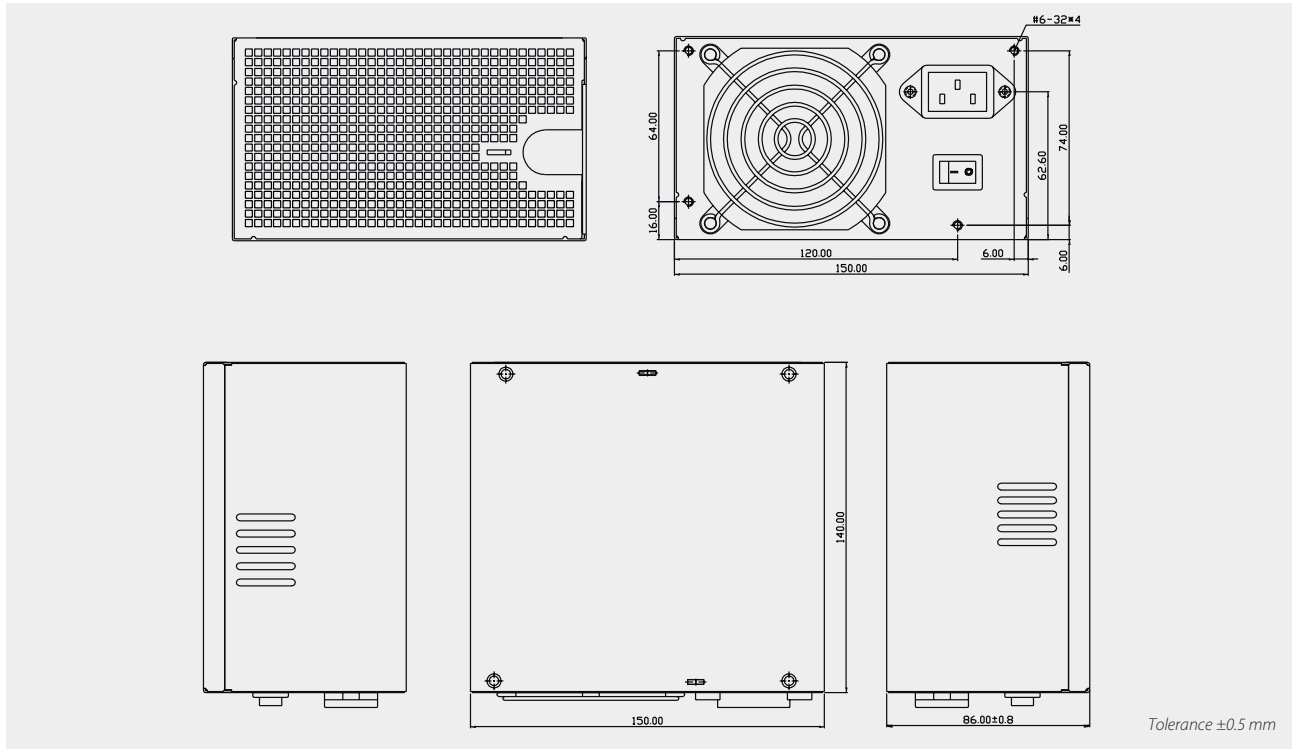
Cross regulation



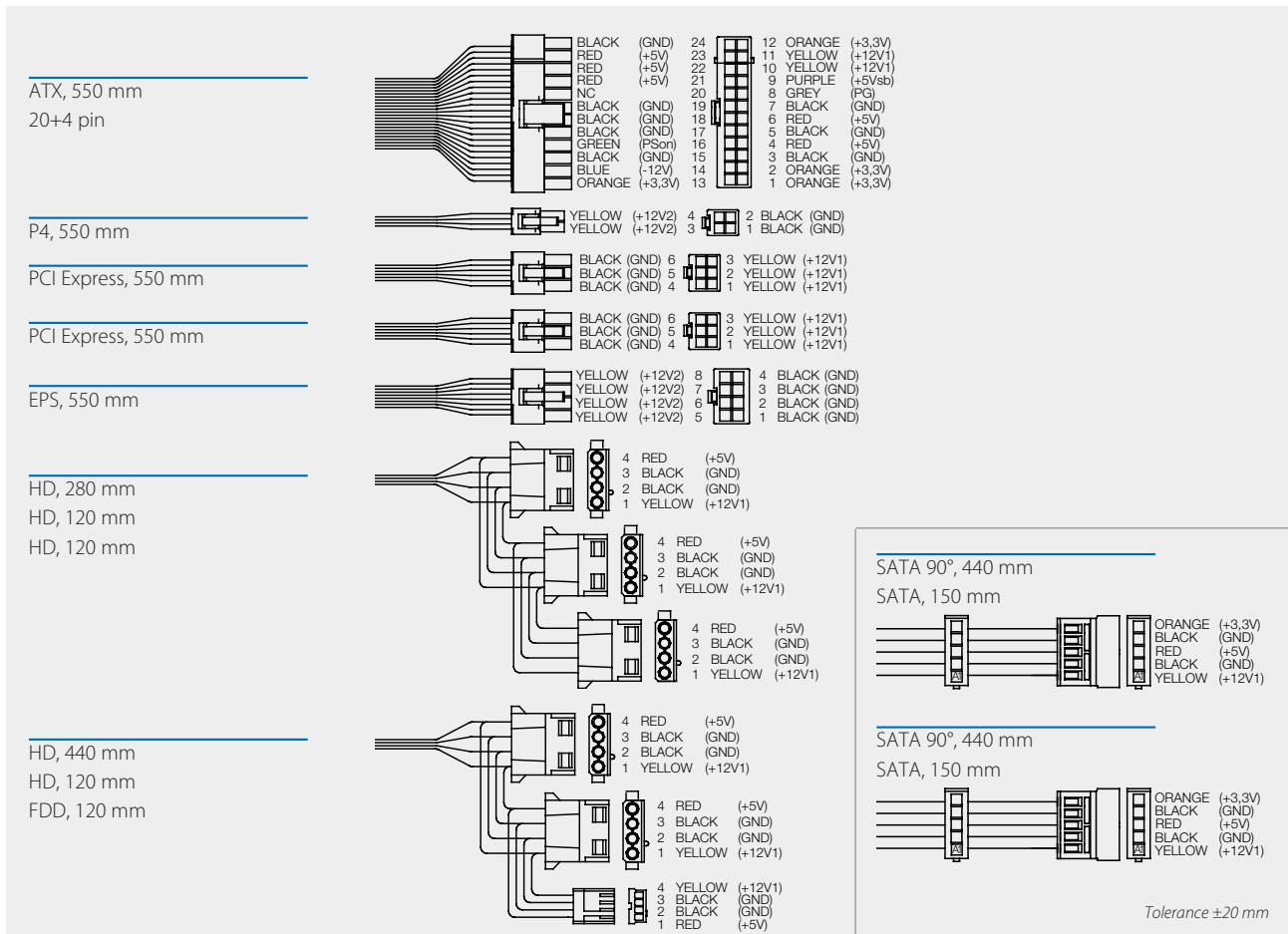
Article No.	Output voltage	Output current			Load regulation	Ripple & Noise
		min	max	peak		
SS-500ES-B1	+3.3 V	0.1 A	24 A		±5 %	50 mV
	+5 V	0.2 A	24 A		±5 %	50 mV
	+12 V ₁	0.1 A	17 A	20 A	±5 %	120 mV
	+12 V ₂	0.5 A	17 A	20 A	±5 %	120 mV
	-12 V	0 A	0.8 A		±10 %	120 mV
	+5 V _{sb}	0 A	2.5 A	3 A	±5 %	50 mV

Max. output power is 500 W, combined output power at +3.3 V and +5 V must not exceed 130 W. Combined output current at 12 V₁ and V₂ must not exceed 34 A / 408 W. Peak output power is 550 W for 1 second. Ripple and noise was measured by a 20 MHz oscilloscope with connected 10 µF electrolytic capacitor and 0.1 µF ceramic capacitor at each output. This power supply is for assembly purposes only and it must not be operated in unassembled condition. The final assembly has to comply with the valid EMC standards.

Drawing SS-500ES-B1



Cable harness SS-500ES-B1



Specification is subject to change without notice. Errors excepted. Status as at: 09.05.2012