

## BEA-635-B1

350 Watt

- Protective coating against short-circuits
- Noise immunity for industrial sectors
- High-quality electrolyte capacitors (+105 °C)

The BEA-635-B1 which is part of the proven IPC power supply BEA series can be ordered with a protective coating. In various areas of industry electrically conductive dust particles such as carbon fibres or sooty particles from combustion residues are the reason for short-circuits in electric equipment. As a preventative measure the circuit board, and especially the critical areas in the power supply, are sealed with a protective coating. The resulting confining layer serves as protection against short-circuit and failure of the power supply caused by this kind of contamination.



**NEW**



AC input

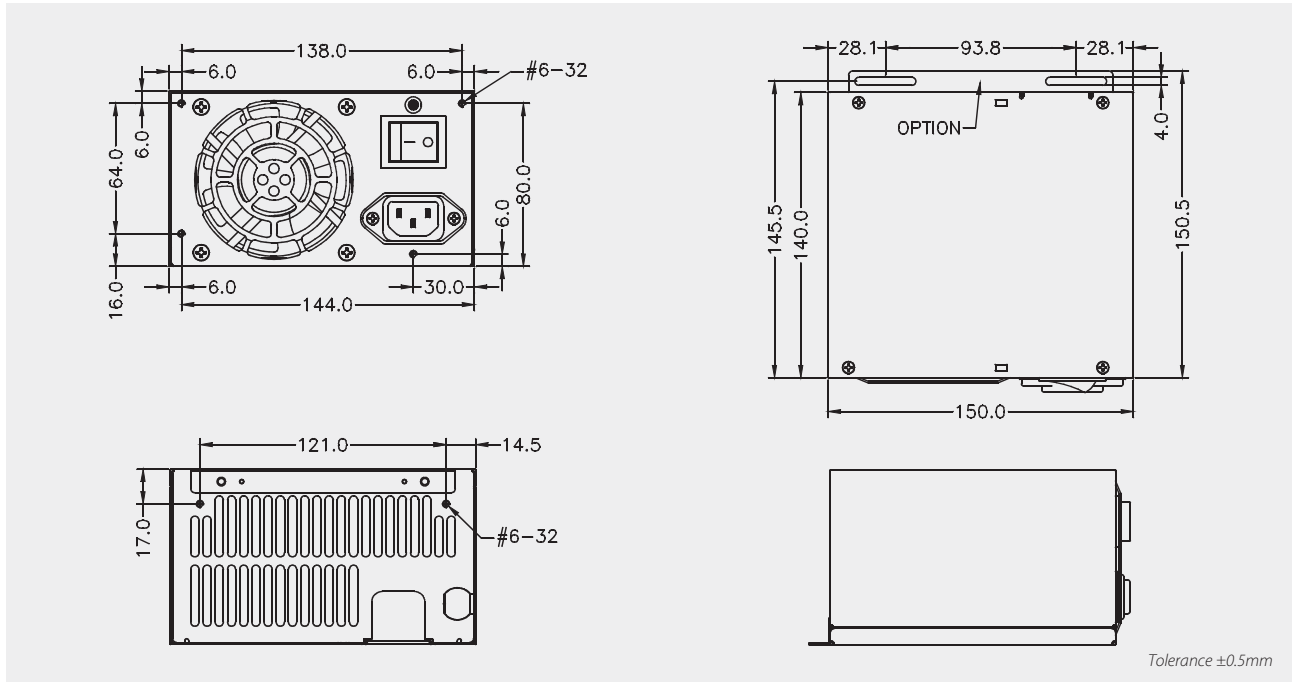
Technical data	
Input voltage	90...264 V AC, 120...380 V DC, active PFC
Input frequency	47...63 Hz
Input current	7 A (115 V AC) / 3.5 A (230 V AC)
Inrush current	48 A (115 V AC) / 88 A (264 V AC)
Efficiency	≥75 %, 230 V AC / ≥70 %, 115 V AC (full load)
Hold up time	>16 ms
Power-Good-Signal	Switch on delay 100...500 ms Switch off delay 1 ms
Protection	Short circuit protection: At each output, switch off / +5 V <sub>sb</sub> , 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 Input / Output 4242 VDC
Earth leakage current	<3.5 mA, 115 V AC / 230 V AC
Safety / EMC	TÜV, UL, CE, EN 61000-6-2, EN 61000-6-4
Operating temperature	-10...+70 °C
Derating	Between +50...+70 °C, 1 % / °C
MTBF	100 000 h at +50 °C, without fan
Storage temperature	-20...+80 °C
Operating humidity	10...90 % RH, non-condensing
Dimensions (WxDxH)	150 x 140 x 86 mm ±0.5 mm
Weight (net)	1.95 kg

Article No.	Output voltage	Output current		Load regulation	Ripple & Noise
		min	max		
BEA-635-B1	+3.3 V	0 A	28 A	±5 %	50 mV
	+5 V	0.5 A	35 A	±5 %	50 mV
	+12 V	0.5 A	26 A	+7/-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 <sub>sb</sub>	0 A	2 A	±5 %	50 mV

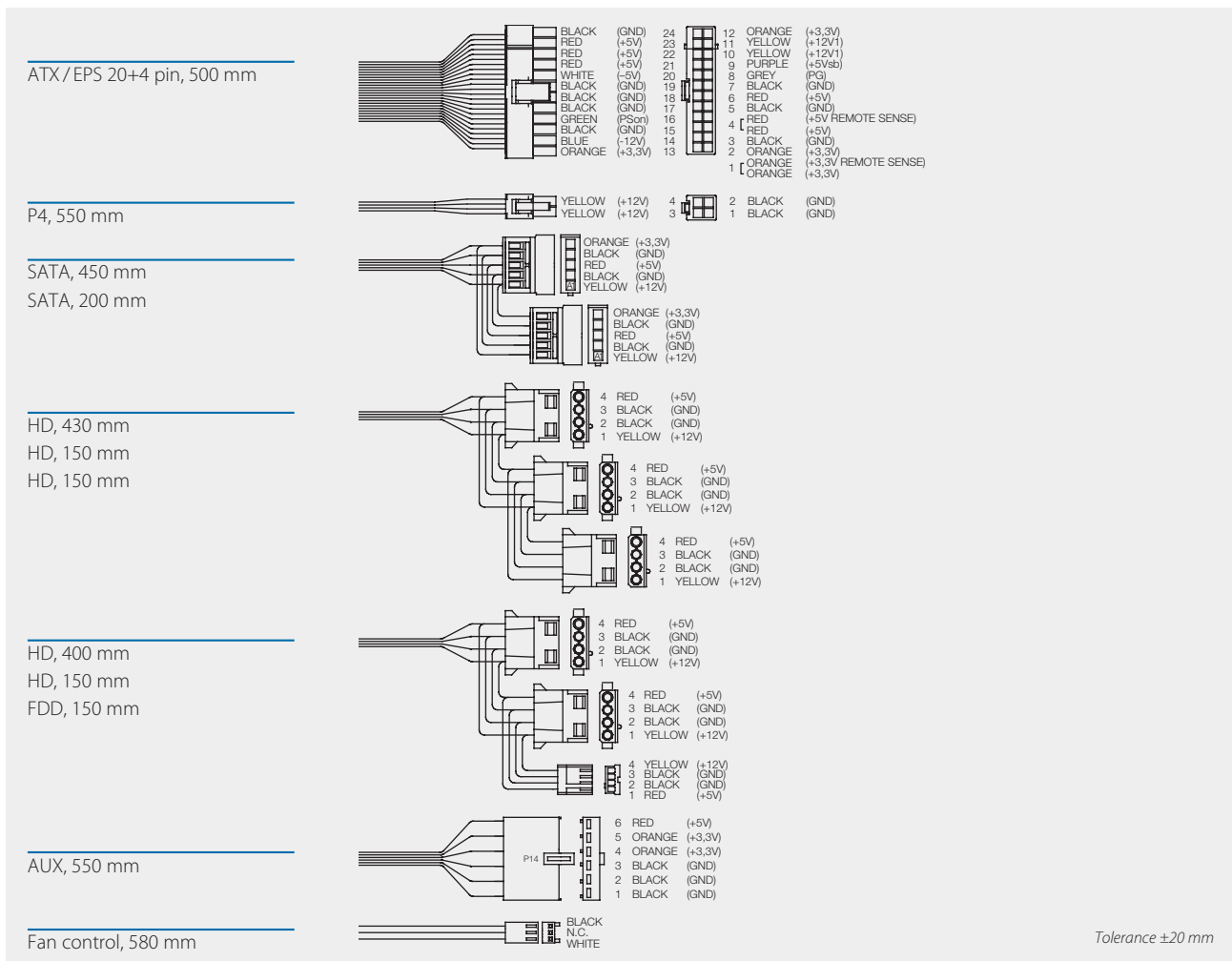
Max. output is 350 W, combined max. output current at +3.3 V and +5 V must not exceed 45 A. For temperatures <20 °C a higher minimal output current is required. Ripple and Noise was measured by a 20 MHz bandwidth limited oscilloscope with connected 220 µF electrolytic capacitor and 0.1 µF ceramic capacitor 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 BEA-635-B1



Cable harness BEA-635-B1



Specification is subject to change without notice. Errors excepted. Status as at: 18.04.2012