

BEA-630-B13

300 Watt

- Noise immunity for industrial sectors
- High-quality electrolyte capacitors (+105 °C)
- Designed for continuous operation 24/7

The 300 W PC power supply BEA-630-B13 is distinguished by very high reliability and long service life. By its integrated 4 kV surge input filter the BEA-630-B13 is also suitable for highly demanding industrial applications. Within an ambient temperature range of -10 up to +50 °C full power can be supplied continuously without restrictions. The temperature regulated ball-bearing fan provides a tachometer signal and can continuously be monitored by the board, which is very important with regard to system reliability.



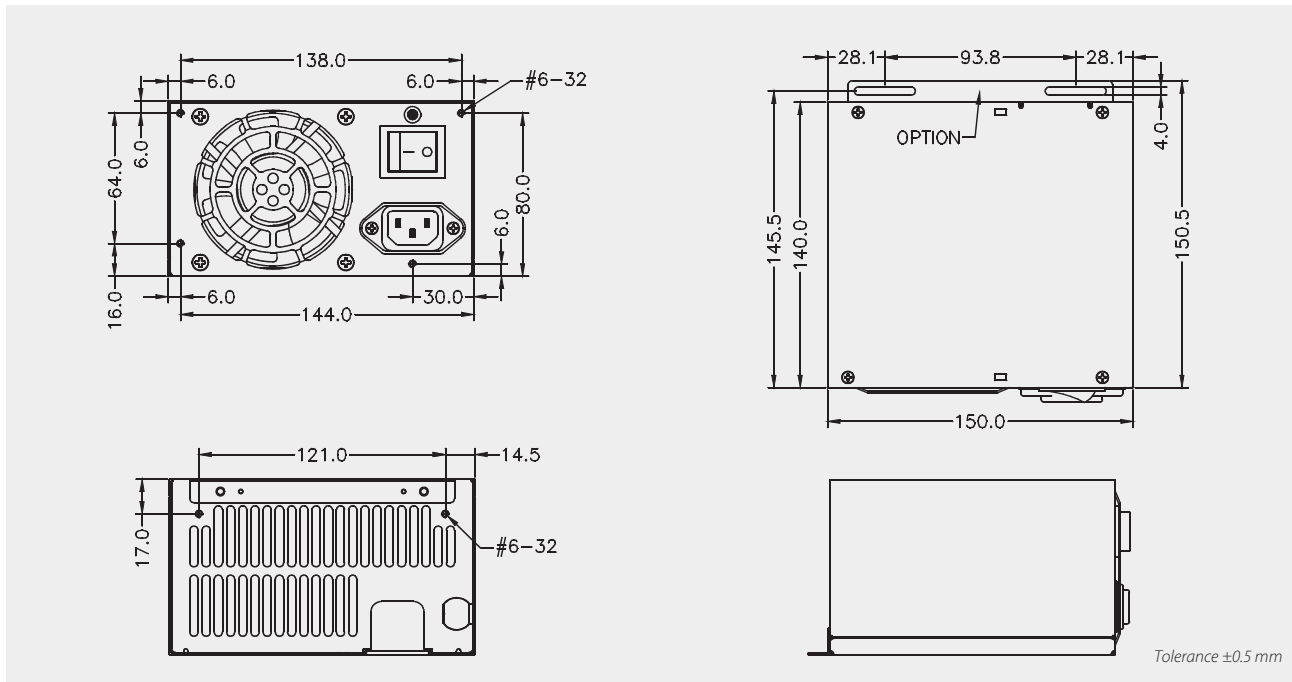
Technical data	
Input voltage	90...264 VAC, 120...380 VDC / active PFC
Input frequency	47...63 Hz
Input current	5 A (115 VAC) / 2.5 A (230 VAC)
Inrush current	44 A (115 VAC) / 87 A (264 VAC)
Efficiency	≥75 %, 230 VAC / ≥70 %, 115 VAC (full load)
Hold up time	>16 msec
Power-Good-Signal	Switch on delay 100...500 msec Switch off delay 1 msec
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 Input / Output 4242 VDC
Earth leakage current	<3.5 mA, 115 VAC / 230 VAC
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	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-630-B13	+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	22 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 _{sb}	0 A	2 A	±5 %	50 mV

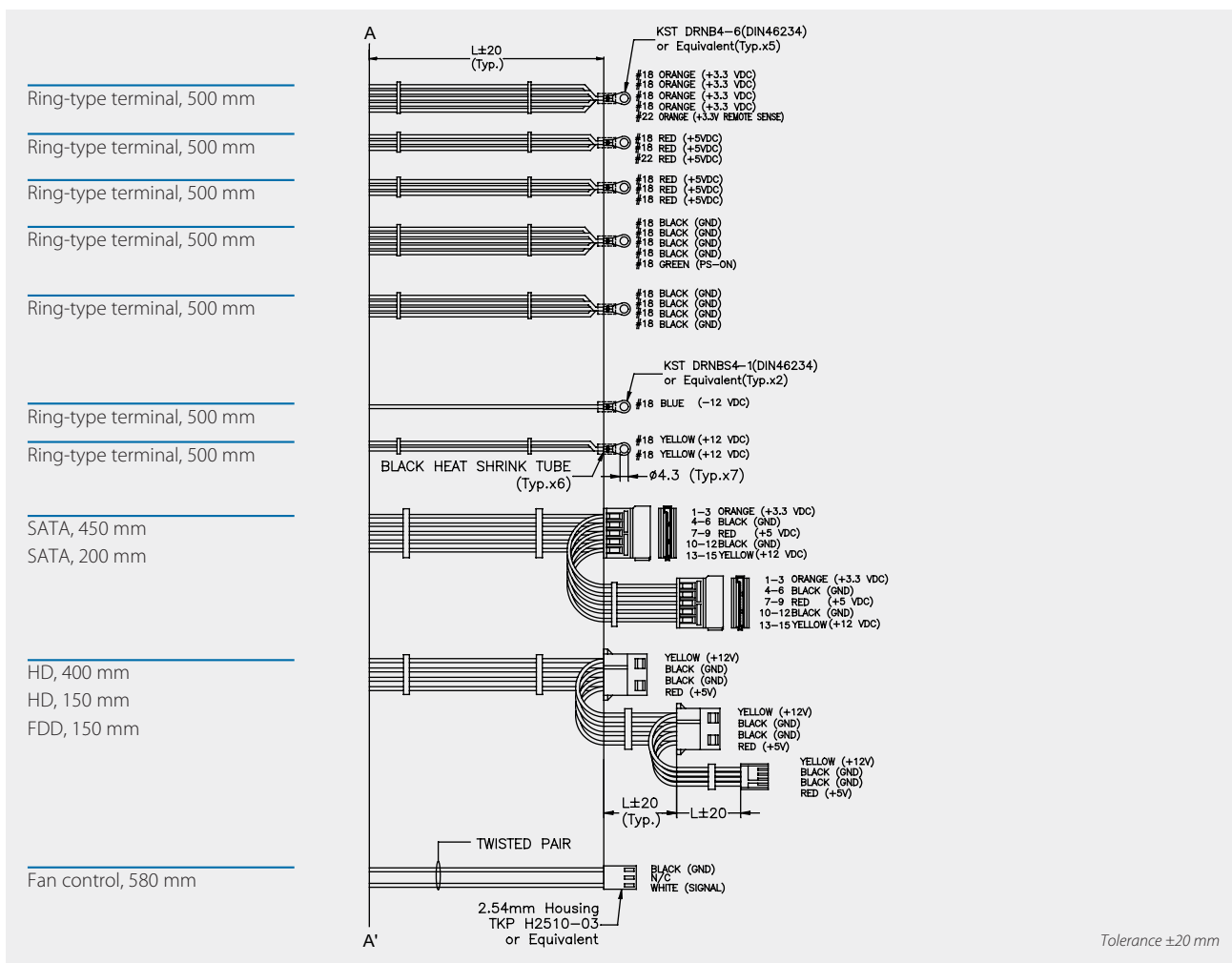
Max. output is 300 W, combined max. output current at +3.3 V and +5 V must not exceed 45 A. For temperatures <20 °C a higher minimal output current is required. Ripple and Noise was measured by a 20 MHz bandwidth limited oscilloscope with connected 220 µF electrolytic capacitor and 0.1 µF ceramic capacitor 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-630-B13



Cable harness BEA-630-B13



Specification is subject to change without notice. Errors excepted. Status as at: 14.06.2010