

BEA-640-B5

400 Watt

- Improved vibration protection according to EN 60945
- Conductor plate with coating
- Safety clip for power cord

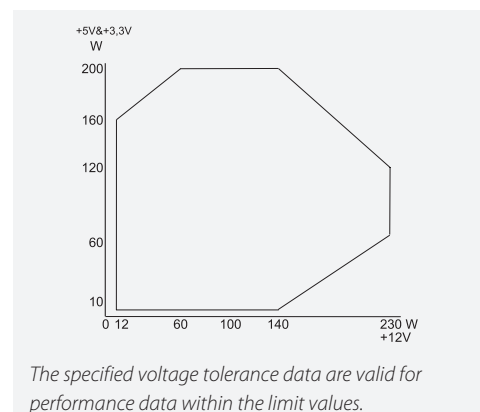
The power supply BEA-640-B5 has been optimized for use in maritime navigation and radio communication devices according to EN60945:2002. The robust power supply is designed for uninterrupted operation (24/7) and is built using only high quality components. The power cord is secured by means of a safety clip. Fan monitoring is ensured via a reliable tachometric signal.



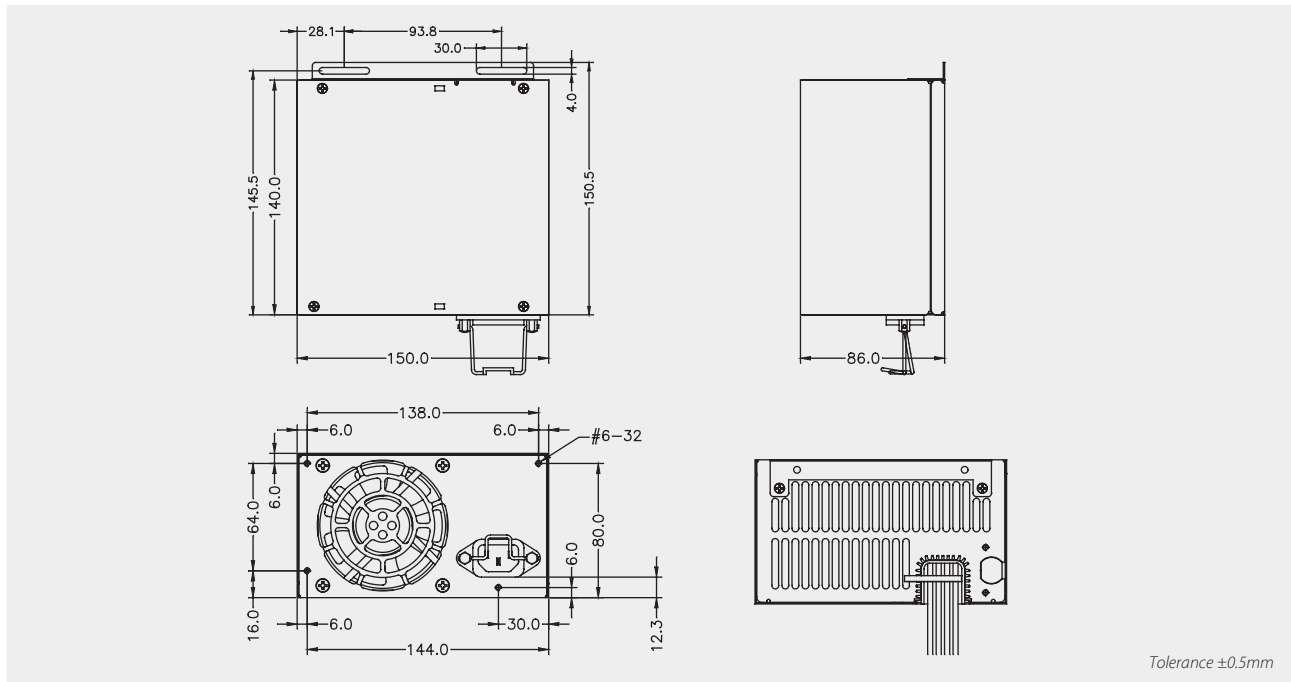
Technical data	
Input voltage	90...264 V AC, active PFC
Input frequency	47...63 Hz
Input current	7 A (115 V AC) / 3.5 A (230 V AC)
Inrush current	49 A (115 V AC) / 94 A (264 V AC)
Efficiency	≥75 %, 230 V AC / ≥70 %, 115 V AC (full load)
Hold up time	>16 ms
Power-Good-Signal	Switch on delay 100...500 ms Switch off delay 1 ms
Protection	Short circuit protection: At every 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 V AC / 230 V AC
Temperature	Operating: -10...+70 °C / Storage: -20...+80 °C
Derating	+50...+70 °C, 1 % / °C
MTBF	177 000 h according to MIL-HDBK-217F at 50 °C without fan
Max. operating altitude	2000 m
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)	2.1 kg

Article No.	Output voltage	Output current min	Output current max	Load regulation	Ripple & Noise
BEA-640-B5	+3.3 V	0 A	28 A	±5 %	50 mV
	+5 V	0.5 A	35 A	±5 %	50 mV
	+12 V	1 A	30 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

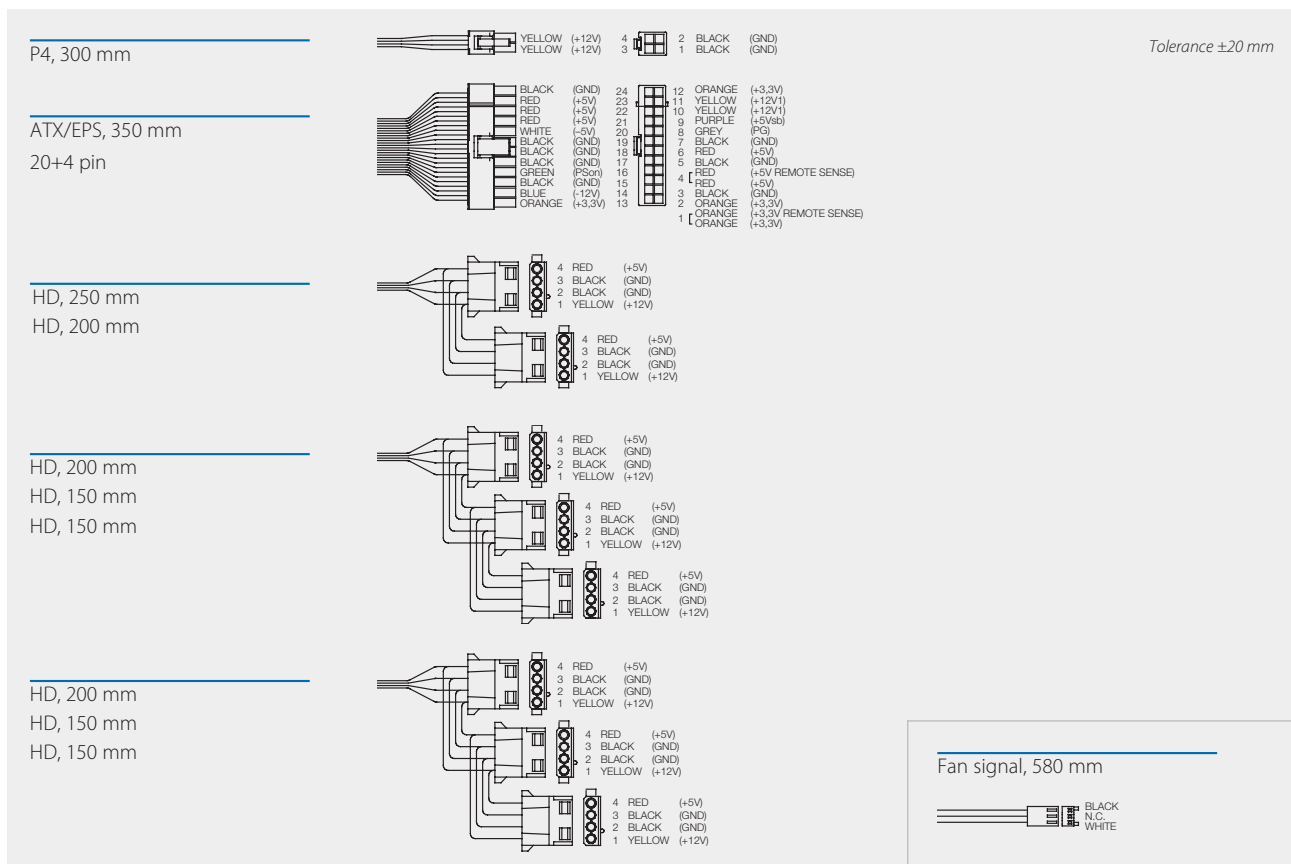
Max. output is 400 W, combined max. output current at +3.3 V and +5 V must not exceed 45 A. Ripple and Noise was measured by a 20 MHz bandwidth limited oscilloscope with connected 220 µF electrolytic capacitor and 0.1 µF ceramic capacitor at each output. During a cross regulation test we recommend to 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.



Drawing BEA-640-B5



Cable harness BEA-640-B5



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

Article No.	Description
XI-132	Power cord with European IEC-60320-C13 connector