BEA-640

400 Watt

- **⊘** Noise immunity for industrial sectors
- ✓ High-quality electrolytic capacitors (+105 °C)
- Desigend for continuous operation 24/7

The 400 W PC power supply BEA-640 is distinguished by very high reliability and long service life. By its integrated 4 kV surge input filter the BEA-640 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 tacho signal and can continuously be monitored by the board, which is very important with regard to system reliability.









Technical data	
Input voltage	90264 V AC, active PFC
Input frequency	4763 Hz
Input current	8 A (115 V AC) / 4 A (230 V AC)
Inrush current	49 (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 100500 ms Switch off delay 1 ms
Protection	Short circuit protection: At every output, switch off / +5 V_{sb} , auto-recovery Overload protection: 110150 %, 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, CCC, EN 61000-6-2, EN 61000-6-4
Temperature	Operating: -10+70 °C / Storage: -20+80 °C
Derating	Between +50+70 °C, 1 % / °C
MTBF	177 000 h according to MIL-HDBK-217F at +50 °C without fan
Max. operation altitude	2000 m
Humidity	Operating: 1085 % RH, non-condensing / Storage: 1090 % RH, non-condensing
Dimensions (WxDxH)	150 x 140 x 86 mm ±0.5 mm
Weight (net)	1.95 kg

Article	Output	Output current		Load	Ripple &
No.	voltage	min	max	regulation	Noise
BEA-640	+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	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. For temperatures $<20^{\circ}$ 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.

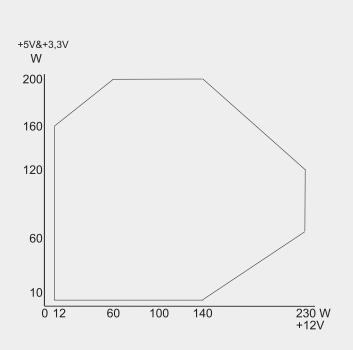


Optional Accessories

⊳⊳ For detailed information please visit our website **www.bicker.de** and refer to the article number.



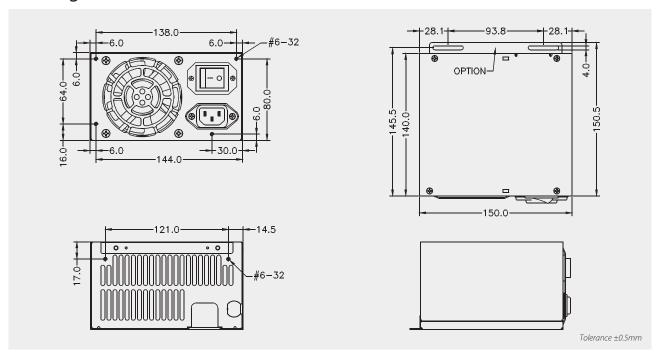
Voltage tolerance



The specified voltage tolerance data are valid for performance data within the limit values.



Drawing BEA-640



Cable harness BEA-640

