BEA-630

300 Watt

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

The 300 W PC power supply BEA-630 is distinguished by very high reliability and long service life. By its integrated 4 kV surge input filter the BEA-630 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	90…264 V AC, active PFC
Input frequency	47…63 Hz
Input current	6 A (115 V AC) / 3 A (230 V AC)
Inrush current	44 A (115 V AC) / 87 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_{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 V DC Input / Output 4242 V DC
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, EN 62368-1
Temperature	Operating: -10…+70 °C / Storage: -20…+80 °C
Derating	Between +50…+70 °C, 0.7 % / °C
MTBF	182000 h according to MIL-HDBK-217F at 50 °C without fan
Max. operation altitude	2000 m
Humidity	Operating: 10…85 % RH, non-condensing / Storage: 10…90 % RH, non-condensing
Dimensions (W x D x H)	150 x 140 x 86 mm ±0.5 mm
Weight (net)	1.95 kg

Article No.	Output voltage	Output current min	Output current max	Load regulation	Ripple & Noise
BEA-630	+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.

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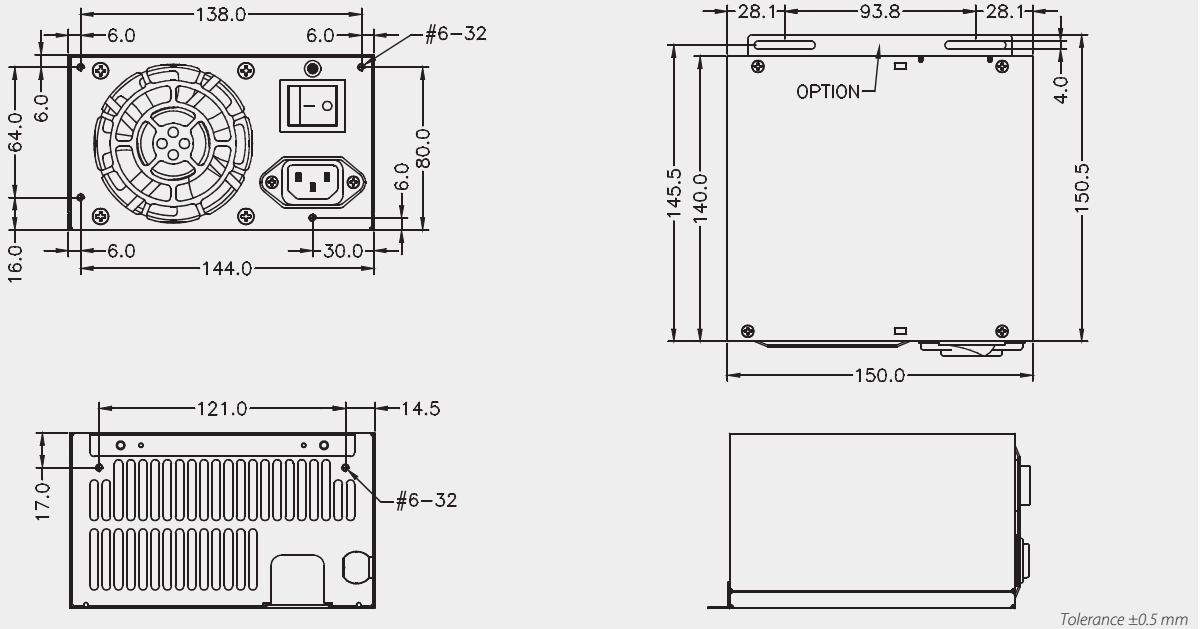
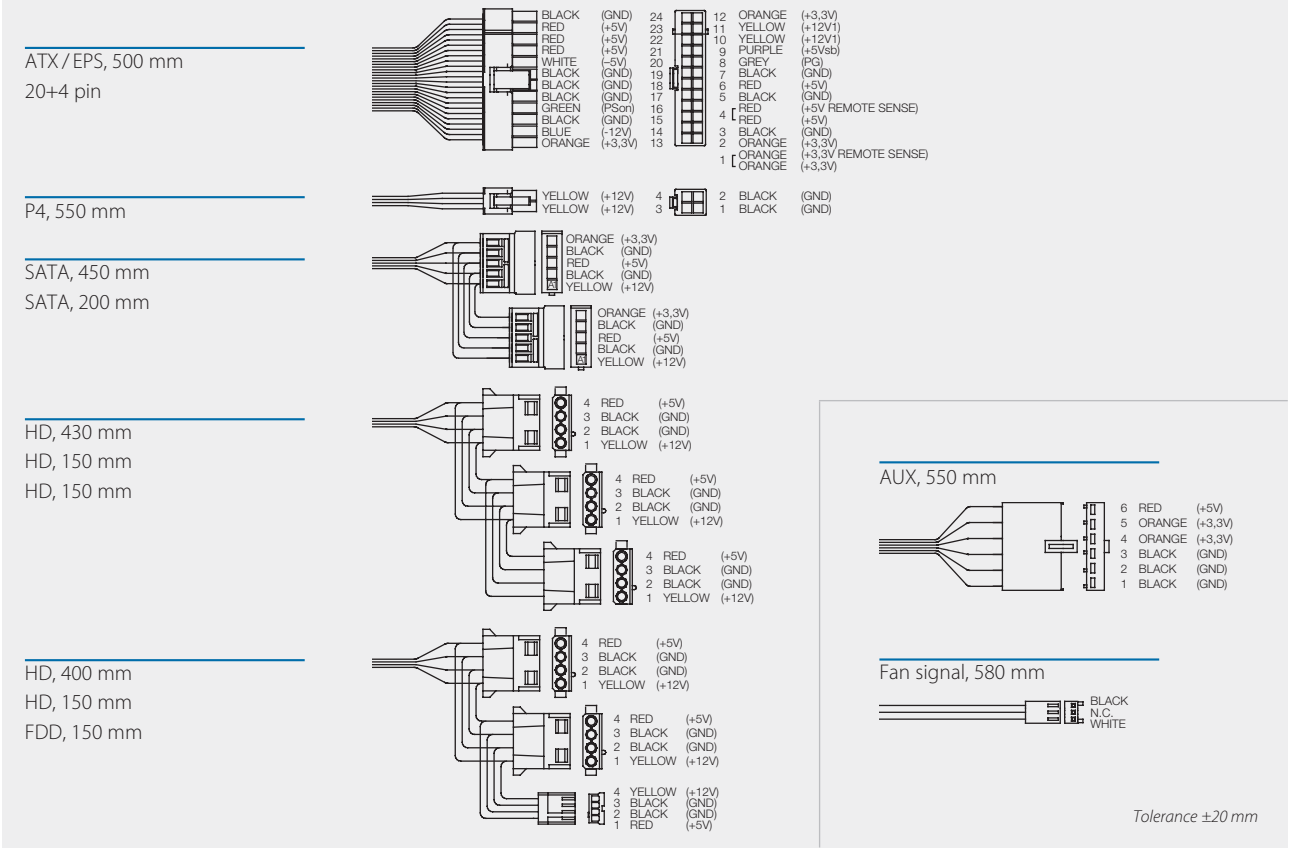
Drawing BEA-630



Tolerance ±0.5 mm

Cable harness BEA-630



Tolerance ±20 mm

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

Article No.	Description
X1-132	Power cord with European IEC-60320-C13 connector