BEH-630

300 Watt

- **Temperature controlled ball-bearing fan**
- **TÜV-approved up to +50 °C**
- **+3.3 V sense line**

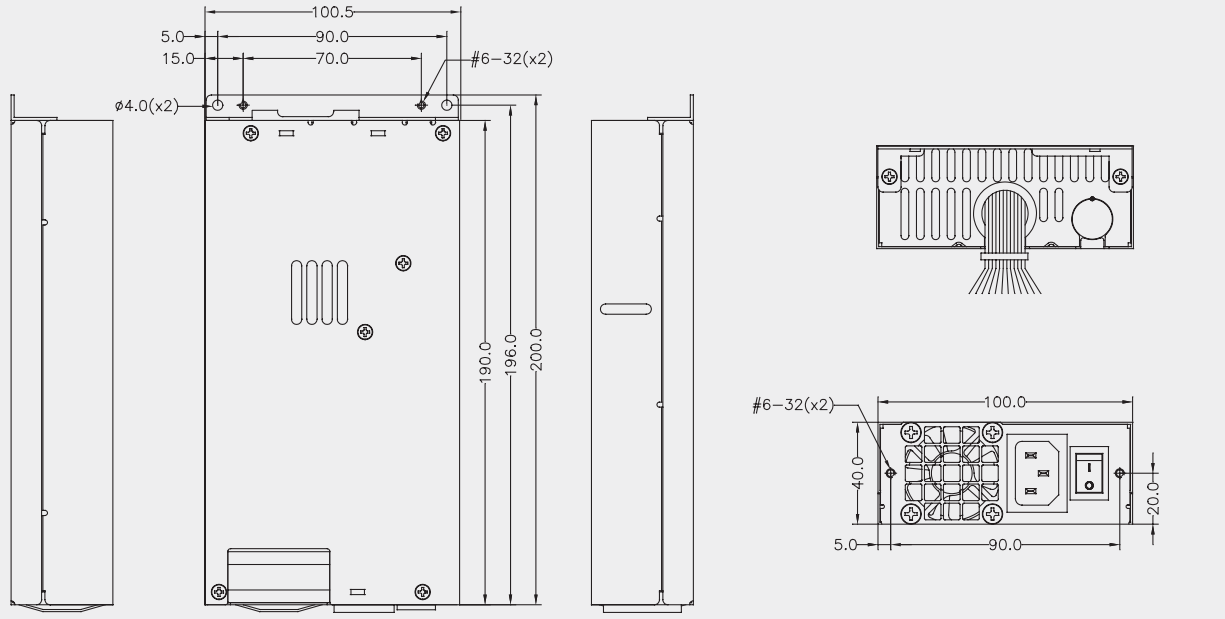
The BEH-630 provides a temperature controlled fan regulation for noise optimisation. By its rugged design the BEH-630 guarantees a long service life even under demanding industrial conditions. Only components of high quality designed for an ambient temperature of +50 °C were used for the assembly. With its generally very good control properties the BEH-630 supplies stable output voltages also at relatively low minimum loads.

Technical data	
Input voltage	90…264 V AC, 120…380 V DC / active PFC
Input frequency	47…63 Hz
Input current	4 A (115 V) / 2 A (230 V)
Inrush current	65 A (115 V AC) / 130 A (230 V AC)
Efficiency	≥70 %, 115 / 230 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: +3.3 V, +5 V, +12 V, switch off / -5 V, -12 V, +5 V_{sb}, auto-recovery Overload protection: 110…160 %, switch off Overvoltage protection: +3.3 V (+3.6…+4.2 V), +5 V (+5.6…+6.6 V), +12 V (+13.2…+14.6 V)
Earth leakage current	<3.5 mA, 115 V AC / 230 V AC
Safety / EMC	TÜV, UL, CE
Operating temperature	-10…+50 °C
Derating at +3.3 V	At +30 °C max. 14 A at +40 °C max. 12 A at +50 °C max. 10 A
MTBF	120 000 h at +50 °C, without fan
Storage temperature	-20…+80 °C
Operating humidity	20…80 % RH, non-condensing
Dimensions (W x D x H)	100 x 190 x 40 mm, ±0.5 mm
Weight (net)	1.3 kg

Article No.	Output voltage	Output current min	Output current max	Load regulation	Ripple & Noise
BEH-630	+3.3 V	1 A	14 A	±5 %	60 mV
	+5 V	2 A	23 A	±5 %	50 mV
	+12 V	1 A	20 A	±5 %	120 mV
	-12 V	0.1 A	0.5 A	±10 %	120 mV
	-5 V	0 A	0.2 A	±10 %	100 mV
	+5 V_{sb}	0.1 A	2 A	±5 %	60 mV

Max. output is 300 W, combined at +3.3 V, +5 V and +12 V it is 285 W. Combined max. output current at +3.3 V and +5 V must not exceed 25 A. From a load of +12 V / >18 A onwards a minimum load of >2 A must be connected at +5 V, from a load of +5 V / >17 A onwards a minimum load of >2 A must be connected at +12 V. 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.
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 BEH-630

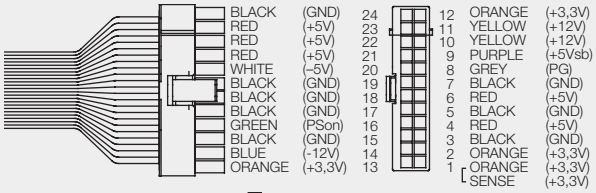


Tolerance ±0.5 mm

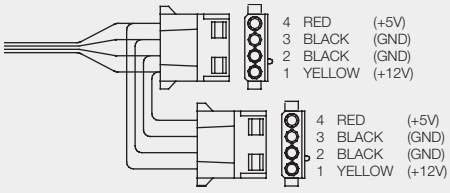
Cable harness BEH-630

P4, 400 mm

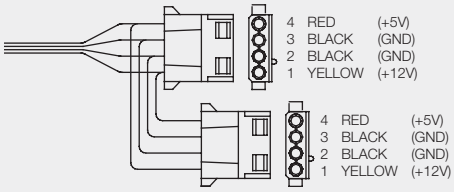
ATX, 420 mm
20+4 Pin



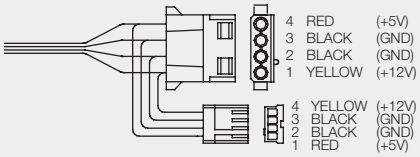
HD, 400 mm
HD, 200 mm



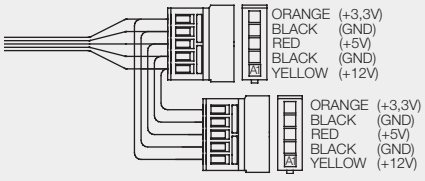
HD, 400 mm
HD, 200 mm



HD, 470 mm
FDD, 200 mm



SATA, 470 mm
SATA, 200 mm



Tolerance ±20 mm