

BEA-630H

300 Watt

- Efficiency >80%
- Additional -5VDC output
- Designed for continuous operation 24/7
- Design Lifetime 6+ years
- Wide temperature range -10...+70 °C
- Max. operation altitude 5000 m
- Output over voltage protection
- Short circuit protection on all outputs
- Nickel plate coating
- Mounting bracket
- Safety clamp @ AC inlet



NEW



AC input

Technical data

Input voltage	90...264 VAC, active PFC
Input frequency	47...63 Hz
Input current	4 A (115 VAC) / 2 A (230 VAC)
Inrush current	<30 A (115 VAC) / <60 A (230 VAC)
Efficiency	Up to 85 %
Standby consumption	<0.5W
Hold up time	>16 ms @ Full Load and 115/230 VAC
Power-Good-Signal	Switch on delay 100...500 ms Switch off delay >1 ms
Protection	Short circuit protection: +3.3/5/12V shut down and latch off, +5 V _{sb} /-12V auto-recovery Overcurrent protection: +3.3 V (25...50 A), +5 V (25...45 A), +12 V (20...28 A) Overvoltage protection: +3.3 V (3.7...4.8 V), +5 V (5.7...7.0 V), +12 V (13.3...16 V)
Earth leakage current	<3.5 mA
Acoustic noise	<25 dB
Safety / EMC	EN/IEC/UL 62368-1 (Ed.2), UL 60950-1 (Ed.2), CE
Temperature	Operating: -10...+70 °C / Storage: -20...+80 °C
Derating	From +50...+70 °C, 1.5 % / °C
MTBF	>100000 h according to MIL-HDBK-217F @ 25 °C full load
Max. operation altitude	5000 m
Humidity	Operating: 5...85 % RH, non-condensing / Storage: 5...95 % RH, non-condensing
Dimensions (WxDxH)	150 x 140 x 86 mm ±0.5 mm
Weight (net)	1.420 kg

Article No.	Output voltage	Output current		Load regulation	Ripple & Noise
		min	max		
BEA-630H	-5 V	0 A	0.1 A	±10 %	100 mV
	+3.3 V	0 A	19 A	±5 %	50 mV
	+5 V	0 A	16 A	±5 %	50 mV
	+12 V ₁	0 A	17 A	±5 %	120 mV
	+12 V ₂	0 A	17 A	±5 %	120 mV
	-12 V	0 A	0.5 A	±10 %	120 mV
	+5 V _{sb}	0 A	3 A	±5 %	50 mV

Max. output is 300 W, combined output power at +3.3 V and +5 V must not exceed 105 W. Ripple and noise was measured by a 20MHz oscilloscope with connected 10µF electrolytic capacitor and 0.1µF ceramic capacitor at each output.

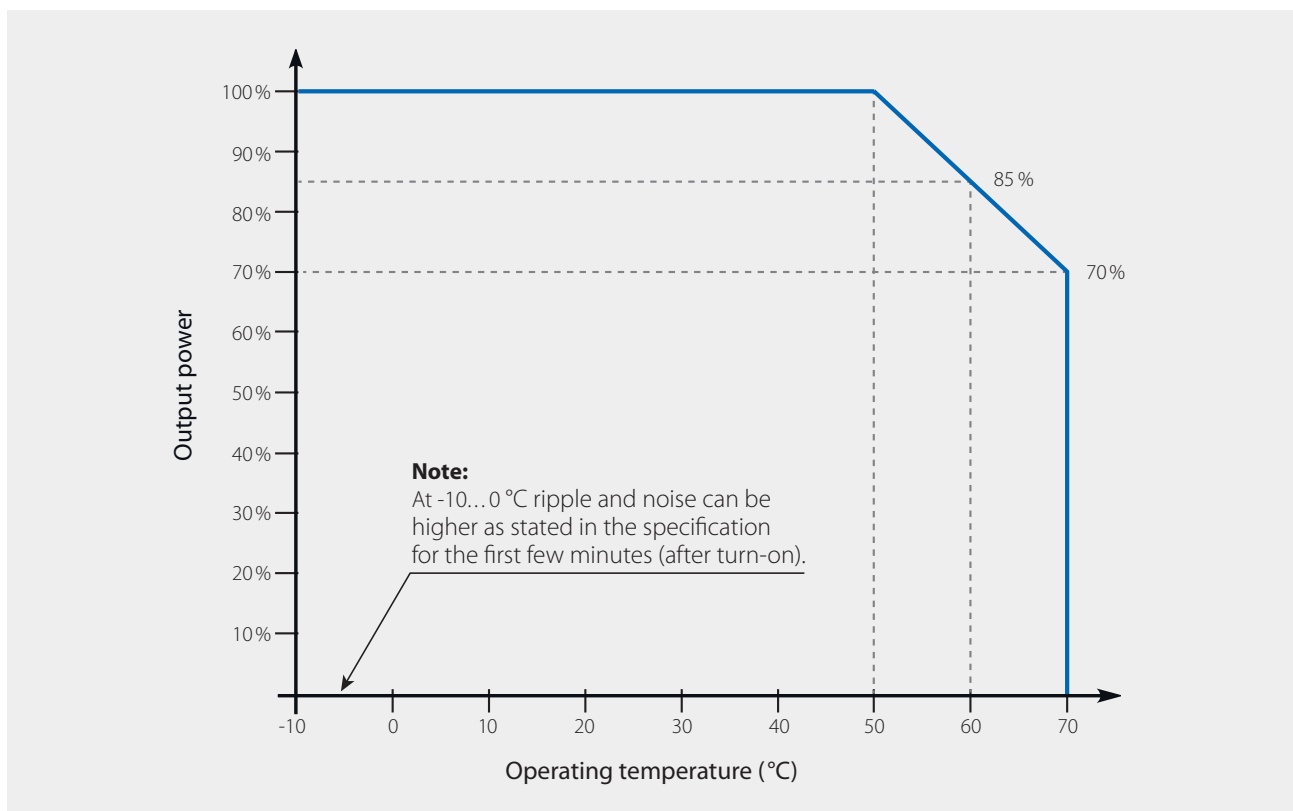
This power supply is for assembly purposes only and it must not be operated in unassembled condition. The final assembly has to comply with the valid EMC standards.

Optional Accessories

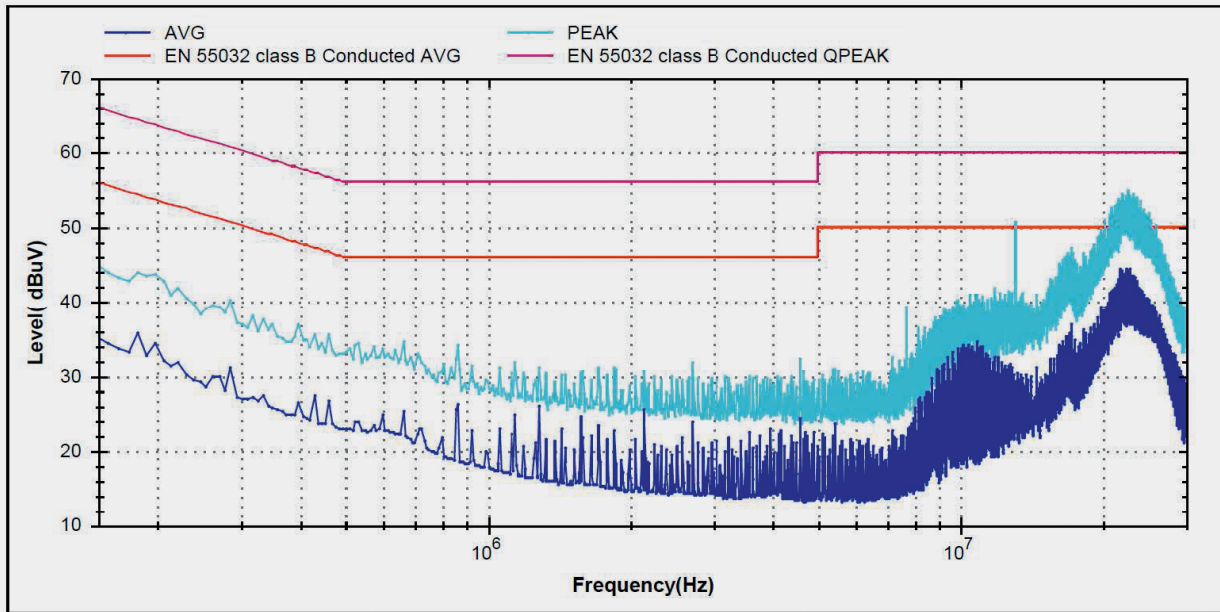
▷▷▷ For detailed information please visit our website www.bicker.de and refer to the article number.



Derating



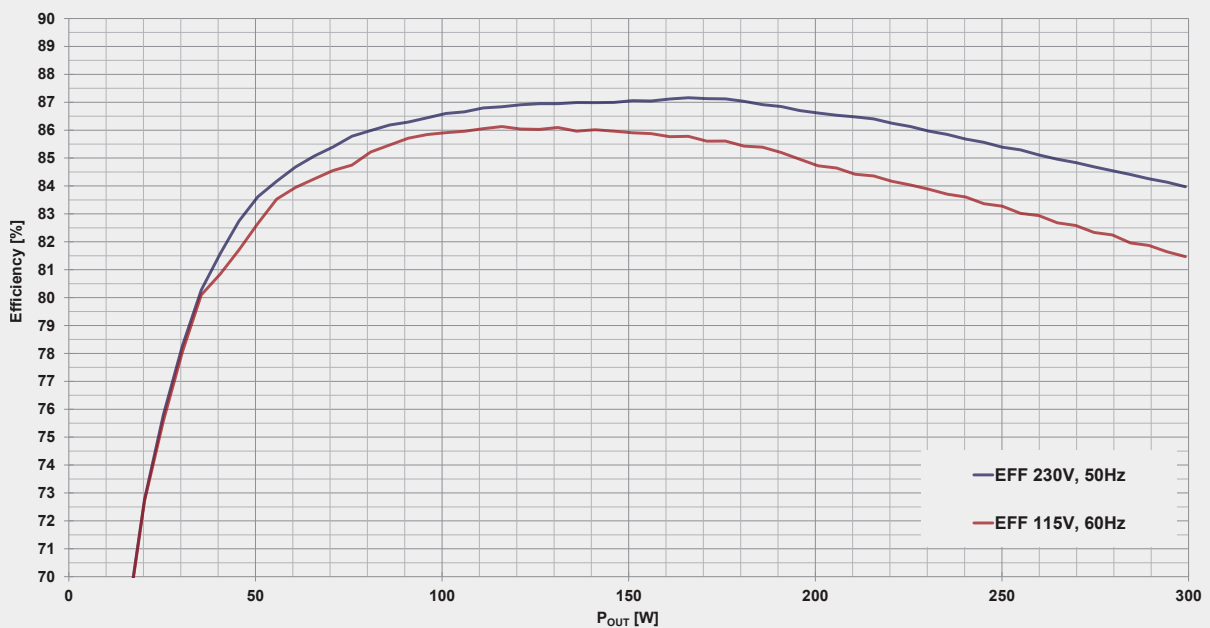
EMC conducted



Measurement conditions

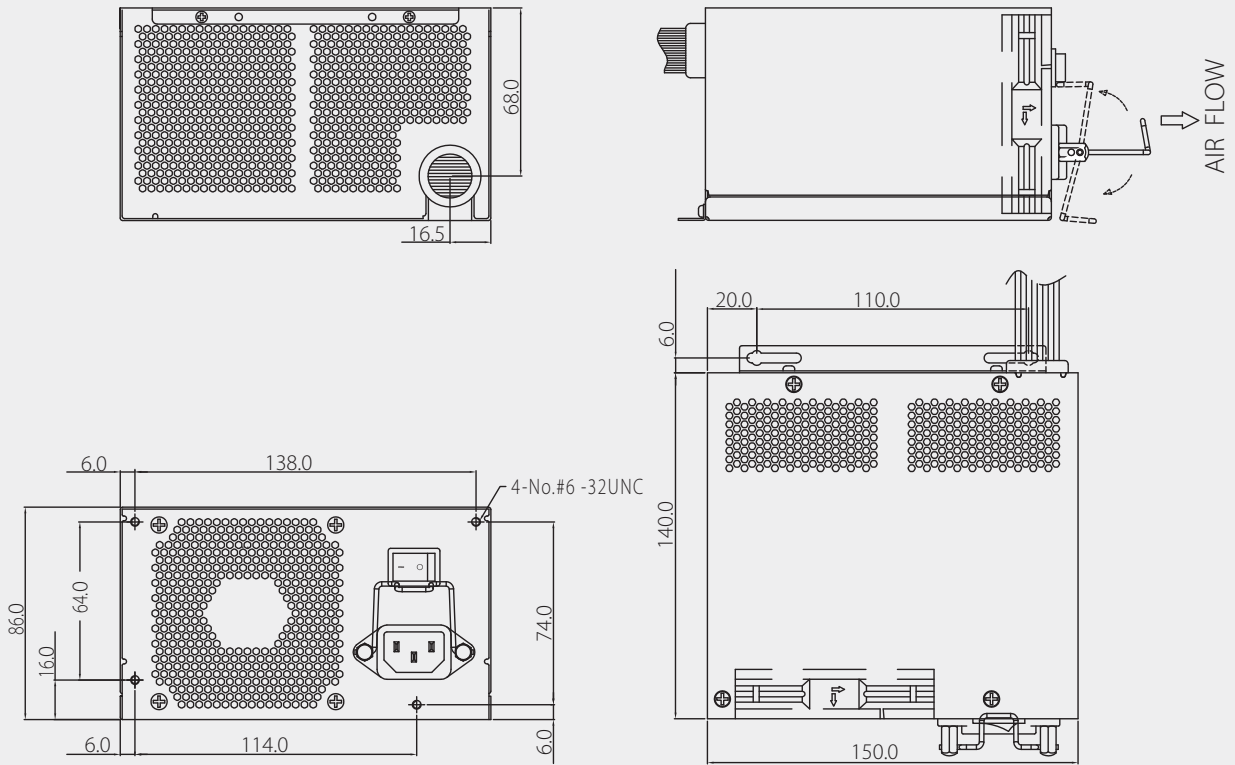
V_{in} 230 VAC / 50 Hz
 P_{out} 300 W (full load)
 T_{amb} 22 °C
 Path 1 (L)

Efficiency curves



Drawing BEA-630H

Tolerance ± 0.5 mm

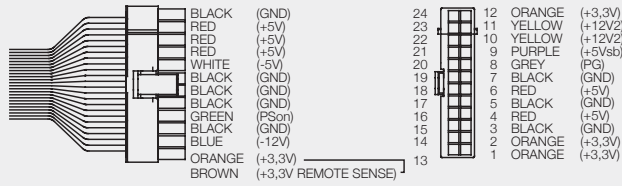


AC input

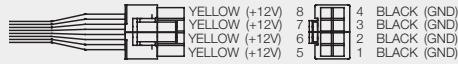
Cable harness BEA-630H

Tolerance ±20 mm

ATX / EPS, 500 mm
20+4 pin



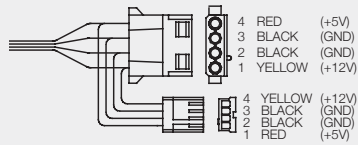
P4 / EPS, 500 mm
4+4 Pin



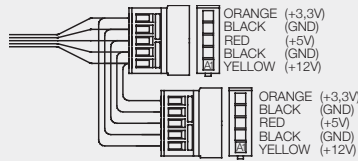
PCI Express 6+2,
500 mm



HD, 500 mm
FDD, 155 mm



SATA, 500 mm
SATA, 155 mm



SATA, 500 mm
SATA, 155 mm

