

BEA-551K

500 Watt

- ✓ High power of 36 A on 12 V output rail
- ✓ Matches the requirements of the latest processor generations
- ✓ High efficiency up to 92.5 %
- ✓ Designed for continuous operation 24/7
- ✓ ErP Lot 6 2013 ready!
- ✓ Ball beared and temperature controlled fan with tachometer signal for monitoring
- ✓ Increased interference resistance
- ✓ Wide temperature range -10...+70 °C
- ✓ High reliability due to premium quality components



NEW



AC input

Technical data

Input voltage	90...264 VAC, active PFC
Input frequency	47...63 Hz
Input current	8 A (115 VAC) / 4 A (230 VAC)
Inrush current	<50 A (115 VAC) / <100 A (220 VAC)
Efficiency	See diagram
Standby consumption	<0.5 W
Hold up time	>16 ms at 230 VAC and full load
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, +5V _{sb} / -12 V, auto-recovery Overcurrent protection: +12 V: 44...54 A, +5V: 30...45 A, +3.3V: 35...60 A Overvoltage protection: +3.3V (+3.5...+4.8V), +5V (+5.5...+7.0V), +12V (+13.4...+16.0V)
Earth leakage current	<3.5 mA
Acoustic noise	<34 dB at full load
Environmental	IEC60068-2-64 (vibration and broadband random)
Safety / EMC	TUV/EN 62368-1, UL 62368-1, EN 55032: 2015/AC:2016 Klasse B, EN 61000-6-2, EN 61000-6-4, CCC, CE
Temperature	Operating: -10...+70 °C / Storage: -40...+80 °C
Derating	From +50 °C...+70 °C, 1 % / °C
Design-lifetime	>5.7 years (230 VAC, +50 °C, 100 % load)
MTBF	>100 000 h according to MIL-HDBK-217F at +25 °C, without fan
Max. operating altitude	5000 m
Humidity	Operating: 10...85 % RH, non-condensing / Storage: 10...95 % RH, non-condensing
Dimensions (WxDxH)	150 x 140 x 86 mm ±0.5 mm
Weight (net)	1.9 kg

Article No.	Output voltage	Output current		Load regulation	Ripple & Noise
		min	max		
BEA-551K	+3.3V	0 A	24 A	±5 %	50 mV
	+5 V	0 A	20 A	±5 %	50 mV
	+12 V	0 A	36 A	±5 %	120 mV
	-12 V	0 A	0.5 A	±10 %	120 mV
	+5 V _{sb}	0 A	3.0 A	±5 %	50 mV

The +3.3V and +5V total output shall not exceed 120 watts. Total output for this subject power supply is 500 watts. At +5V/0A max. the output current at +12V must not exceed 30A. Ripple and noise measurements shall be made under all specified load conditions through a single pole low pass filter with 20MHz cutoff frequency. Outputs shall bypassed at the connector with a 0.1 µF ceramic disk capacitor and a 47 µF electrolytic capacitor to simulate system loading.

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

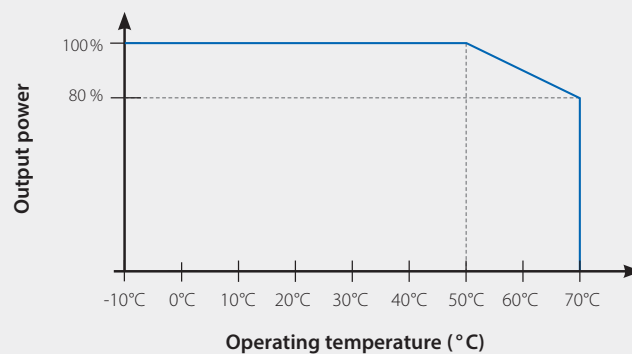
▷▷▷ For detailed information please visit our website www.bicker.de and refer to the article number.

X1-132 | Power cord

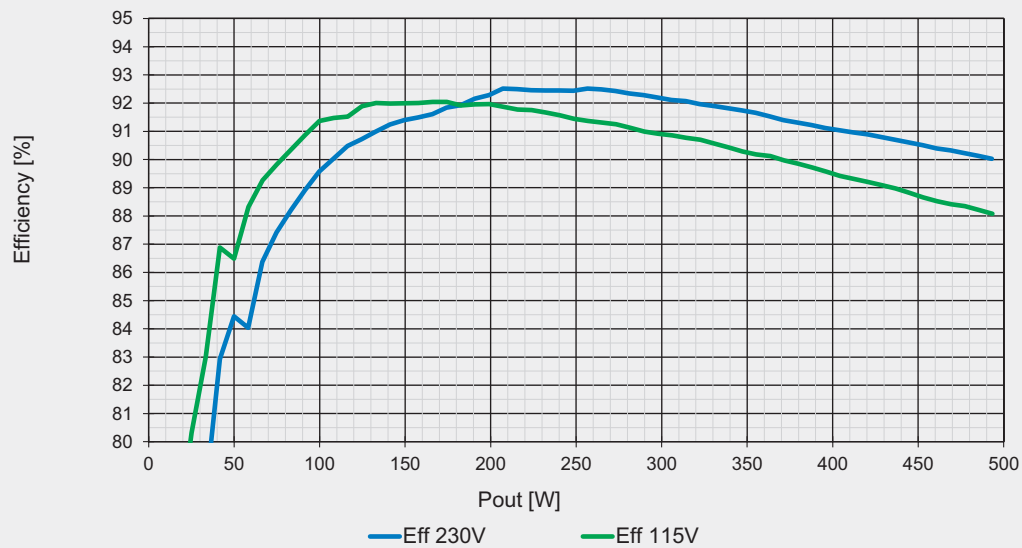
With IEC-60320-C13 connector,
length 1800 mm



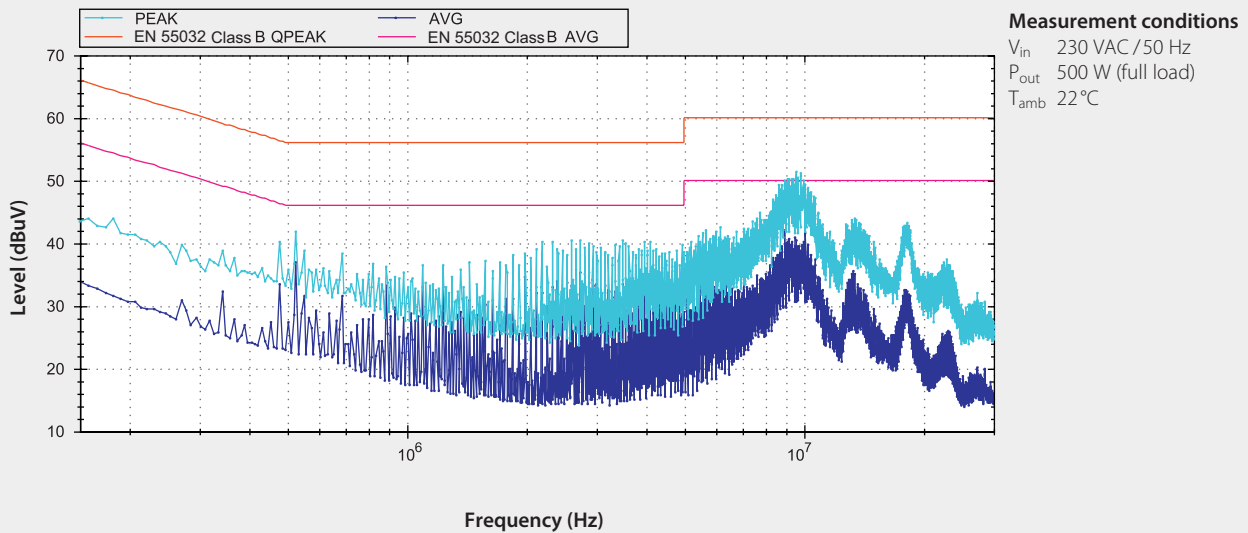
Derating



Efficiency

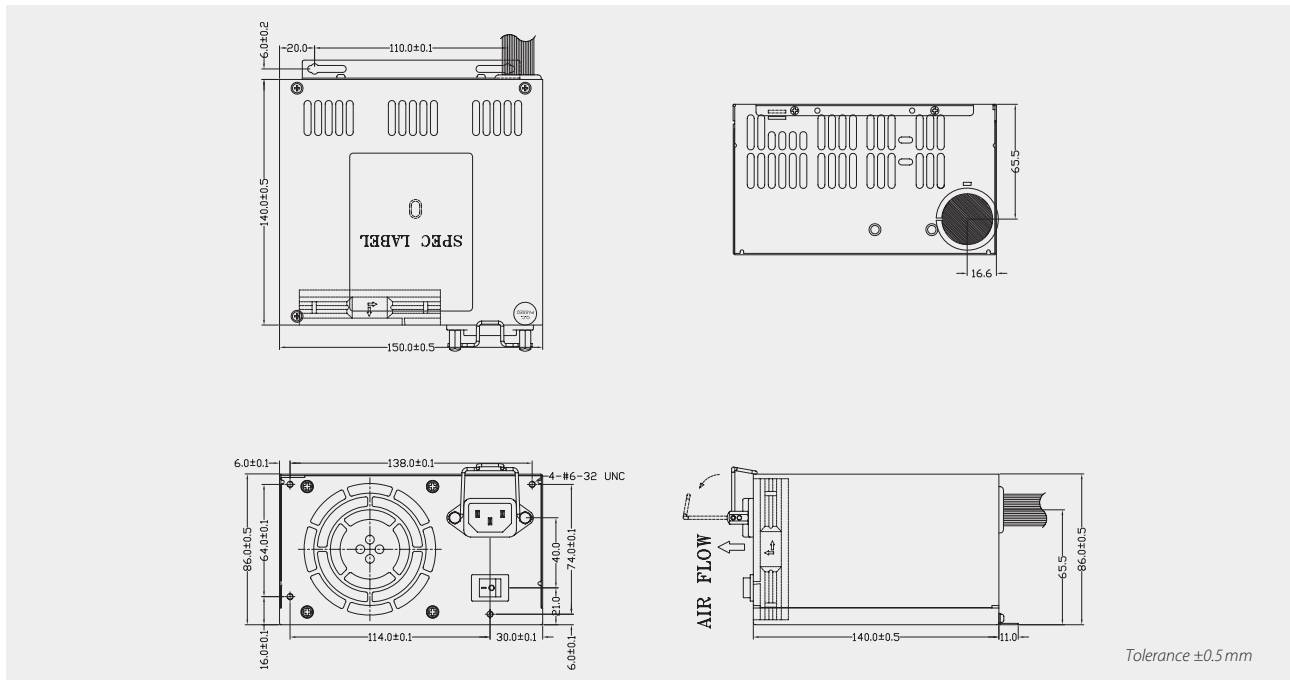


EMC – conducted



All measurements done at ambient temperature of +22°C.

Drawing BEA-551K



Cable harness BEA-551K

