

BEP-515

150 Watt

- 150 Watt continuous fanless power!
- Operating temperature up to +70 °C
- For 1 U systems

By its rugged design the 150 W ATX power supply BEP-515 is the ideal power supply for fanless working applications. Full power can be supplied without cooling at an ambient temperature of +50 °C. For easy connection an ATX cable harness is available. Fit-form-function compatible power supplies with DC input or for medical use are available as BEP-515C and BEP-515M, respectively.



AC input



Technical data

Input voltage	90...264 V AC, active PFC, 127...380 VDC
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	≥75 % (at rated load and 115 VAC)
Hold up time	>16 ms (at rated load and 115 VAC)
Power Good signal	Switch on delay 100...500 ms Switch off delay 1 ms
Protection	Short circuit protection: At each output, switch off (-12 V shutdown of 3PIN regulator) Overload protection: 130...160 %, switch off Overvoltage protection: +5 V (+5.4...+5.8 V), switch off Overtemperature protection: switch off at +110 °C (temperature of primary heatsink)
Earth leakage current	<3.5 mA
Safety / EMC	CE, UL 60950-1, CB: IEC 60950-1
Operating temperature	0...+70 °C
Derating	2.5 % / °C from +50...+70 °C
MTBF	181 000 h at +25 °C according to MIL-HDBK-217F
Storage temperature	-20...+70 °C
Operating humidity	5...95 % RH, non-condensing
Dimensions (WxDxH)	97 x 198 x 40 mm ±0.4 mm
Weight (net)	0.7 kg

Product specific data

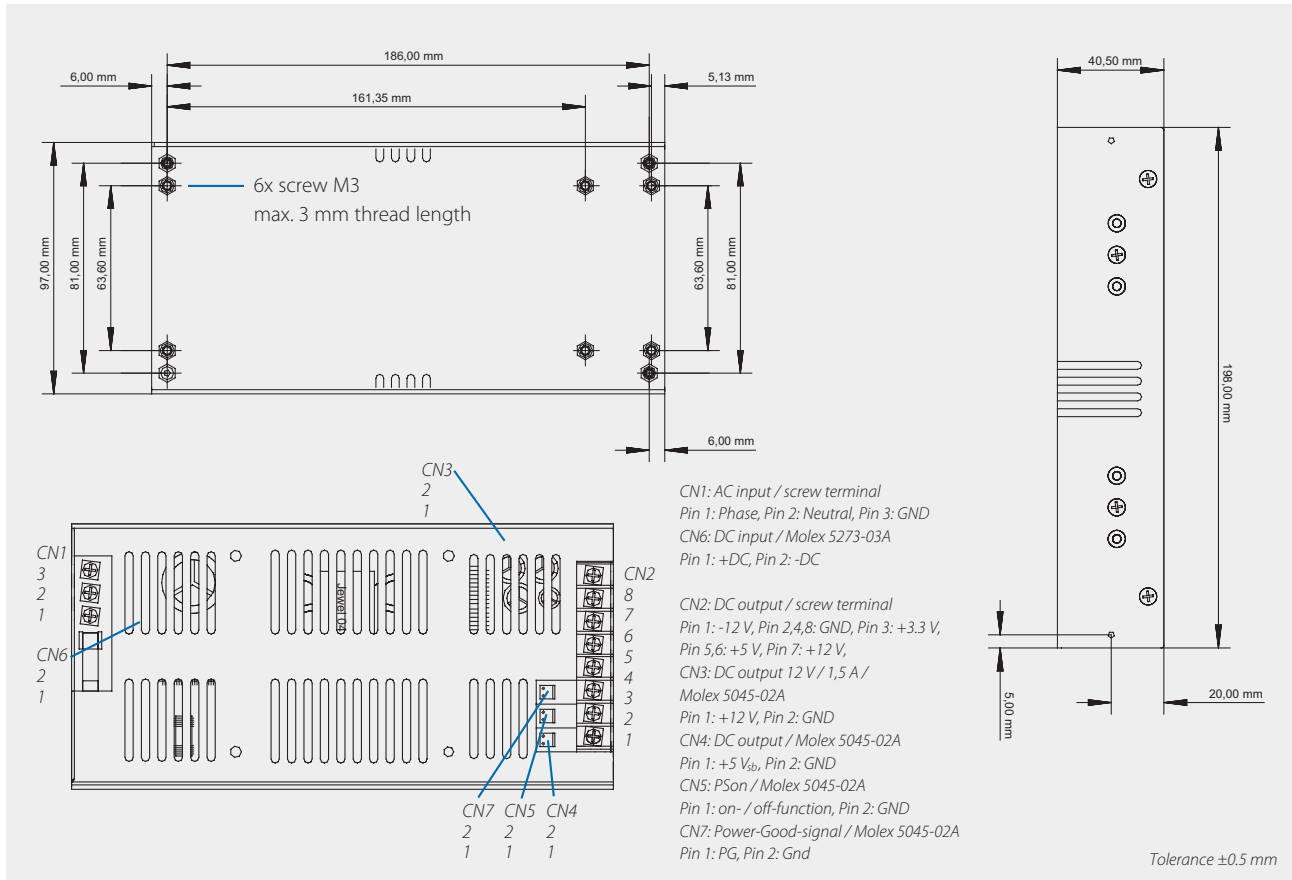
Startup delay	0.3...6 s (230 VAC...115 VAC)
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Article No.	Output voltage	Output current		Rated load	Load regulation	Line regulation	Ripple & Noise
		min	max				
BEP-515	+3.3 V	0.5 A	12 A	7.5 A	±4 %	±1 % at rated load with	50 mV
	+5 V	1 A	14 A	11 A	±2 %		50 mV
	+12 V	0 A	10 A	5 A	±4 %	±10 % change at input voltage	100 mV
	-12 V	0 A	1.0 A	0.5 A	±5 %		150 mV
	+5 V _{sb}	0 A	1.5 A	0.75 A	±4 %		100 mV

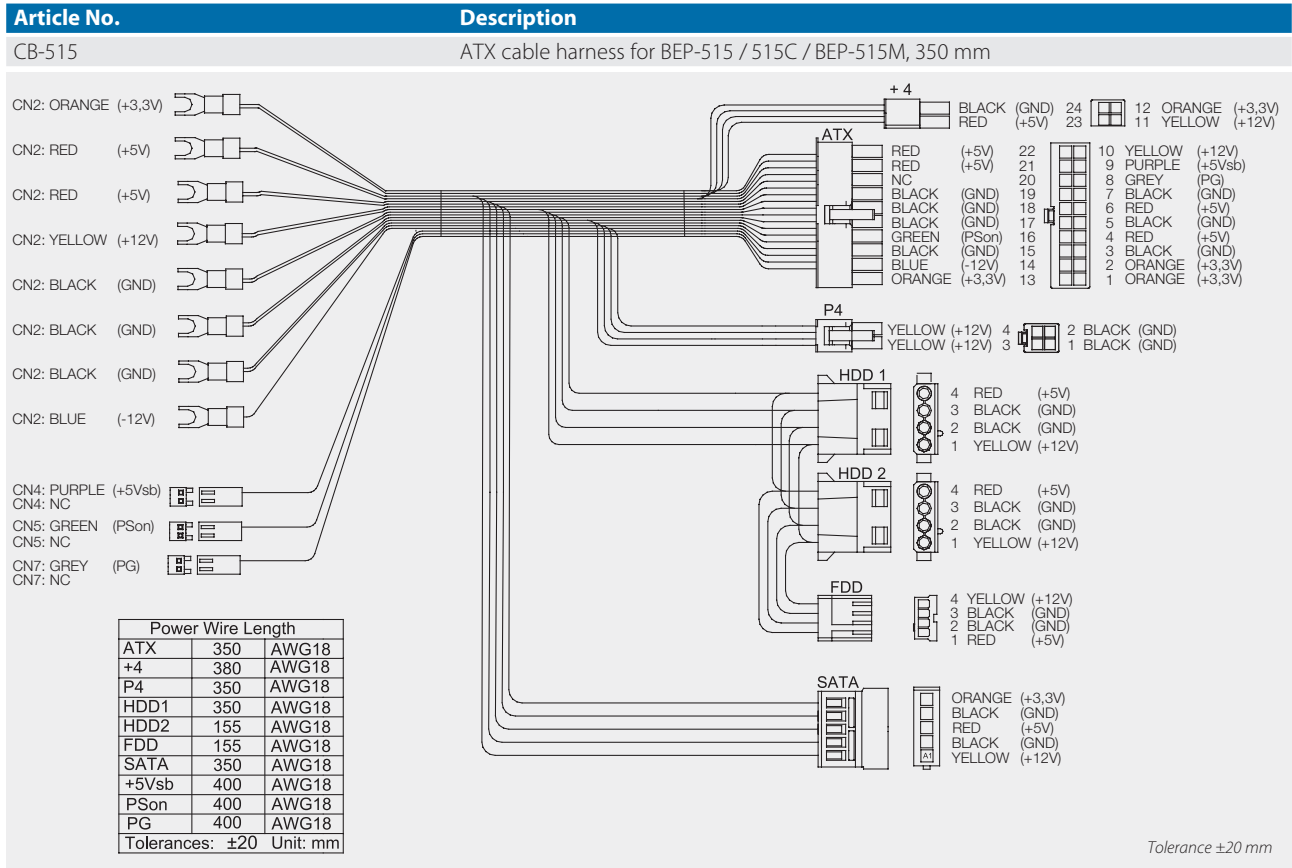
Combined output load at +3.3 V and +5 V must not exceed 90 W. The +5 V output can supply up to 14 A if a minimum load of +3.3 V / 1.3 A and +12 V / 3 A is connected. The +3.3 V output can supply 12 A if a minimum load of +5 V / 3 A and +12 V / 0.2 A is connected. Ripple and Noise was measured by a 20 MHz bandwidth limited oscilloscope with connected 10 µF electrolytic capacitor and 0.1 µF ceramic capacitor at each output. Load regulation was done by changing the measured output load ±40 % from 60 % rated load and all other outputs kept at 60 % rated load.

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 BEP-515



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



Specification is subject to change without notice. Errors excepted. Status as at: 16.03.2012