

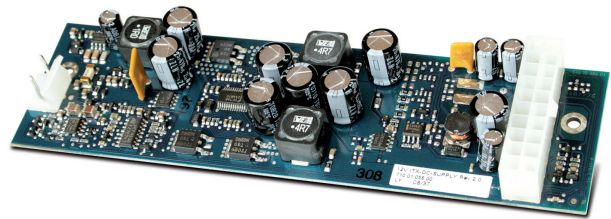
DC100W

100 Watt



- ✓ High efficiency up to 90 %
- ✓ 100 Watt continuous fanless power!
- ✓ Small design

The flat and compact ATX DC/DC converter is designed for installation into fanlessly operating computers. It is distinguished by a very high efficiency. Due to its robust construction and the usage of high-grade components it is ideal for industrial and medical applications. A corresponding cable harness is optionally available. For mains voltage connection the BEO-1012M (medical) is recommended as internal power supply or as external power supply the BET-1212M (medical).



Technical data	
Input voltage	12 VDC (11.4...12.6 VDC)
Input current	9.3 A max. (12 VDC)
Efficiency	90 % at nominal load
Power-Good-Signal	Switch on delay 100...500 ms Switch off delay 1 ms
Protection	Input: Inverse-polarity protection, fuse Overvoltage protection: 16 V-7 %, switch off Short circuit protection: At each output, switch off Output: Overvoltage protection: +3.3 V, +5 V, 12 V (via controller) Thermal overload protection for +3.3 V, +5 V, +12 V, +5 V _{sb}
Insulation voltage	Non-isolated input / output
Switch on delay	1.5 Sec.
Temperature	Operating: -20...+50 °C / Storage: -20...+70 °C
MTBF	>500000 h according to Siemens standard SN29500 at +50 °C
Max. operation altitude	5000 m
Humidity	Operating: 10...85 % RH, non-condensing / Storage: 10...90 % RH, non-condensing
Dimensions	160.5 x 45.1 x 18 mm ±0.5 mm
Weight (net)	0.08 kg

Article No.	Output voltage	Output current			Load regulation	Ripple & Noise
		min	max	peak		
DC100W	+3.3 V	0 A	5 A	8 A / 10 ms	±5 %	50 mV
	+5 V	0 A	8.5 A	10 A / 10 ms	±5 %	60 mV
	+12 V	0.1 A	2.6 A	8 A / 2 sec	±5 %	120 mV
	-12 V	0 A	0.2 A		±10 %	120 mV
	+5 V _{sb}	0 A	1.5 A	2 A / 10 ms	±5 %	100 mV

Max. power is 100 W, at +3.3 V, +5 V, and +12 V it is 90 W. Without galvanic isolation!

This unit 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.

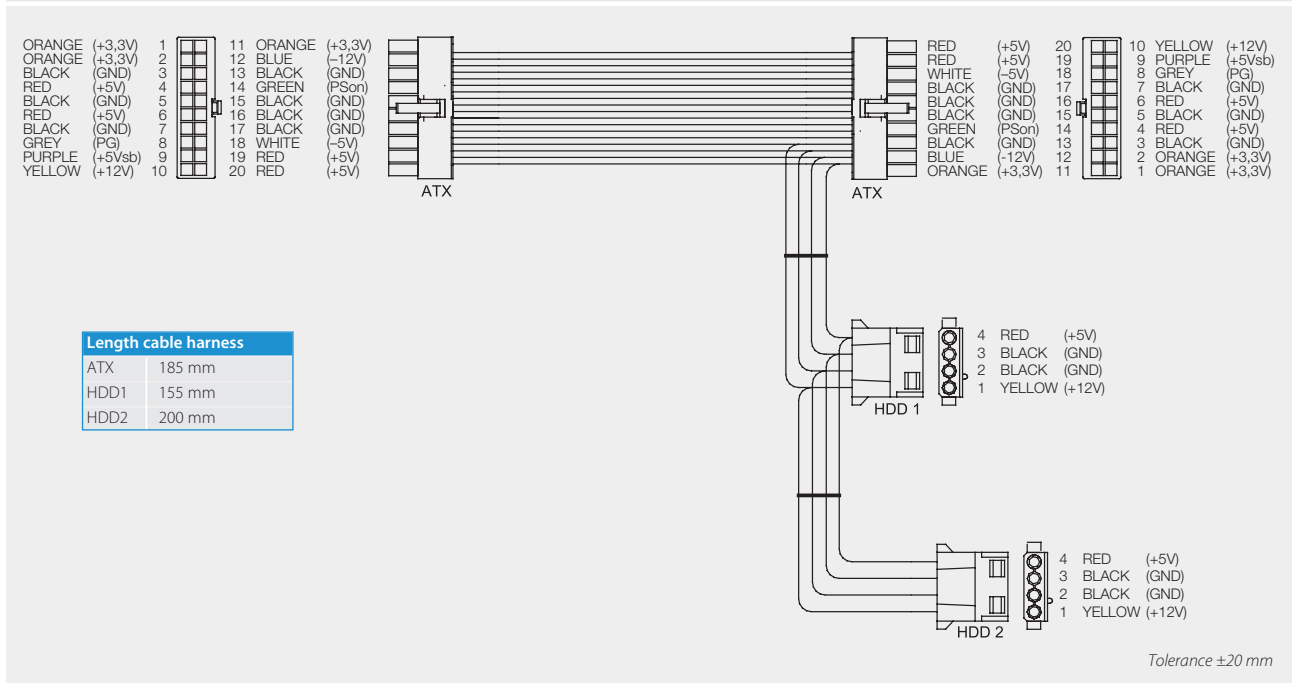
Drawing DC100W



Advice! In case of a temperature transfer of the PCB to the chassis bottom via Thermal Pad, the PCB temperature decreases depending on the ambient temperature by approx. 10...20 °C.

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

Article No.	Description
CB-DC100W	ATX cable harness for DC100W, 185 mm



Recommended power supplies from Bicker Elektronik ▷▷▷ Additional recommendations on www.bicker.de

TRG100A120-CECV	BEO-1012M
100 Watt	100 Watt

