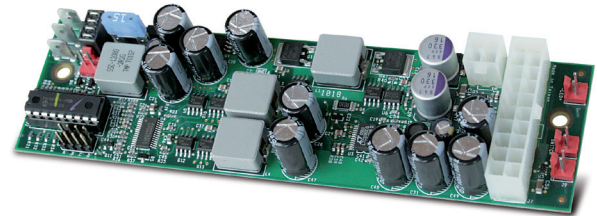


## DC120W

120 Watt

- 8...24 V DC input range
- Small dimensions
- Efficiency >90 %

The extremely flat ATX DC/DC converter has been designed for installation in closed, fanless box computers. It is characterized by a very high efficiency and a low thermal dissipation rate. Due to its robust construction and high-quality components it is ideal for implementation in industrial and medical devices. A cable harness is part of the standard equipment.



Technical data									
Input voltage	8...24 VDC								
Input current	15 A max.								
Efficiency	App. 94 %								
Power-Good-Signal	Switch on delay 100...500 ms Switch off delay 1 ms								
Protection	Input: Inverse-polarity protection input, no Short circuit protection: +3.3 V, +5 V, switch off Output: Overvoltage protection: +3.3 V, +5 V (via Controller)								
Insulation voltage	No separation between input / output								
Operating temperature	-10...+50 °C								
Derating	According to operating temperature and power a GapPad® or fan might possibly be needed. Board temperature should not exceed +60 °C. <table border="1"> <thead> <tr> <th>Input voltage</th> <th>Current at +12 V</th> </tr> </thead> <tbody> <tr> <td>8</td> <td>6</td> </tr> <tr> <td>10...19</td> <td>8</td> </tr> <tr> <td>20...24</td> <td>7</td> </tr> </tbody> </table> <p>Reference measuring at +24 V input:                      Operating temperature +40 °C:                      +3.3 V / 3 A, +5 V / 5 A, +12 V / 6 A with Gap Pad® on Alu (170 x 50 x 4 mm)                      Operating temperature +20 °C:                      +3.3 V / 5 A, +5 V / 5 A, +12 V / 7 A with fan 66 m³/h</p>	Input voltage	Current at +12 V	8	6	10...19	8	20...24	7
Input voltage	Current at +12 V								
8	6								
10...19	8								
20...24	7								
MTBF	192 000 h								
Storage temperature	-20...+85 °C								
Operating humidity	10...90 % RH, non-condensing								
Dimensions	160 x 45 x 23 mm ±0.5 mm								
Weight (net)	0.1 kg								

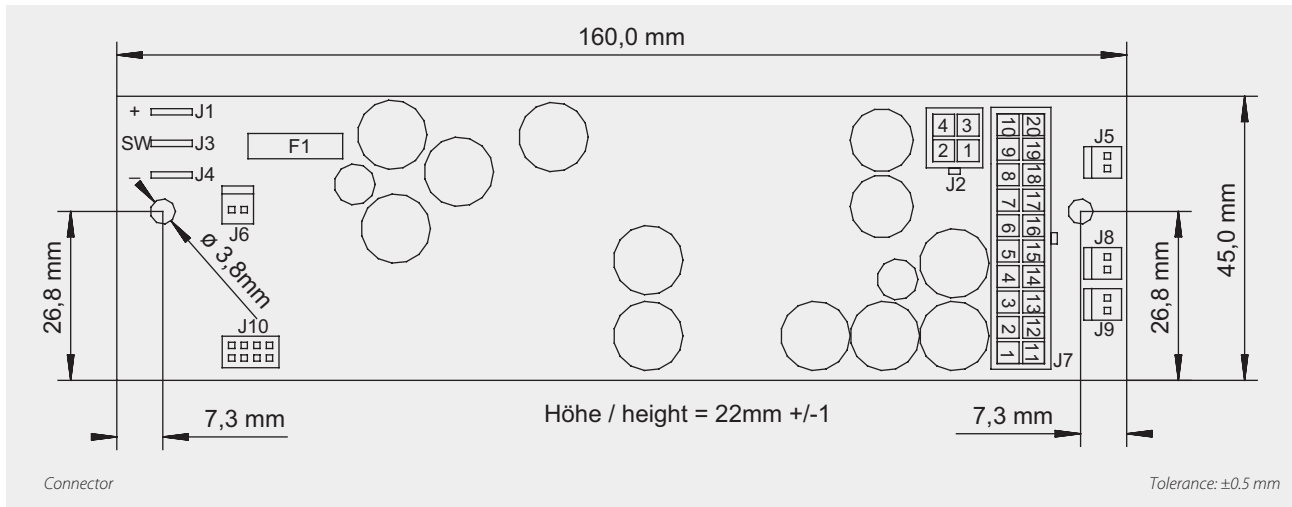
Article No.	Output voltage	Output current			Load regulation	Ripple & Noise
		min	max	peak		
DC120W	+3.3 V	0 A	8 A	10 A	±5 %	50 mV
	+5 V	0 A	8 A	10 A	±5 %	50 mV
	+12 V	0.1 A	8 A*	10 A	±5 %	120 mV
	-12 V	0 A	0.1 A	0.2 A	±10 %	120 mV
	+5 V <sub>sb</sub>	0 A	1.5 A	2 A	±5 %	100 mV

\* See Derating

Max. power is 120 W. Peak-output current can be for max. 60 Seconds. Without galvanic isolation!

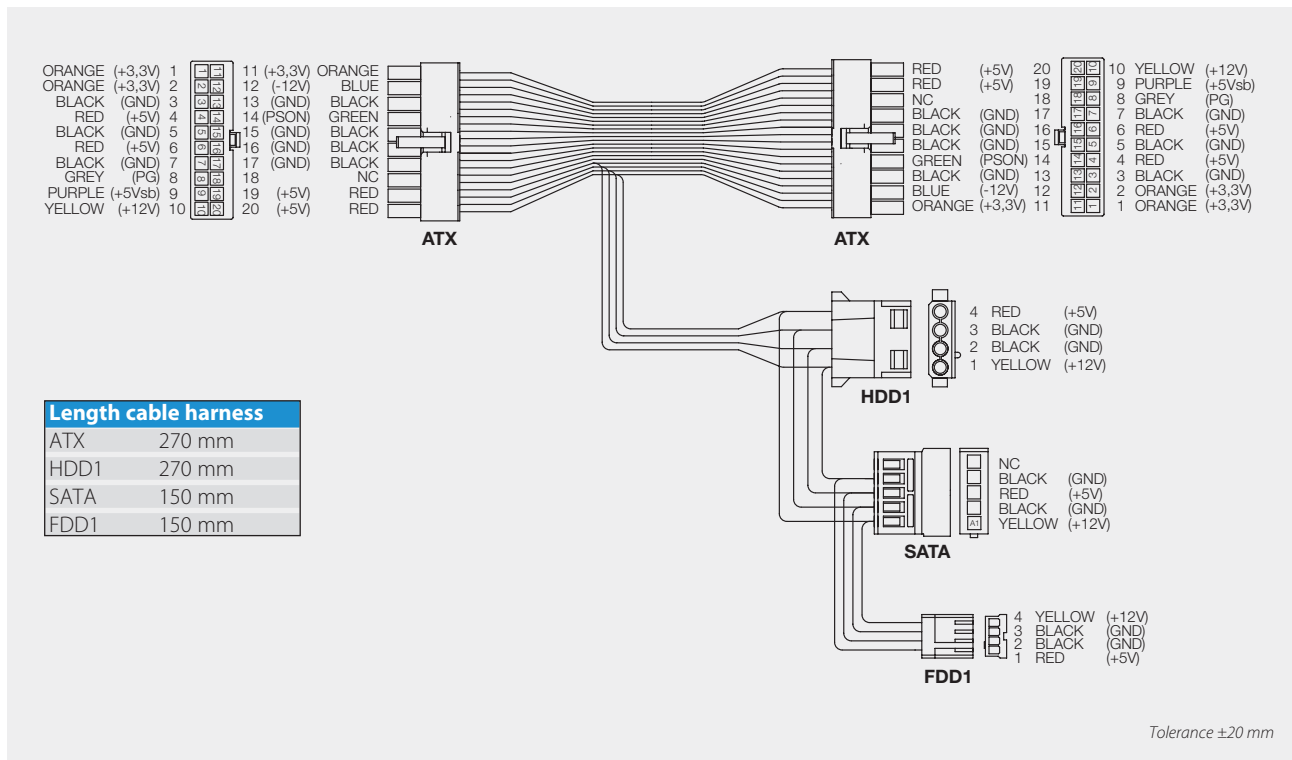
This unit is for assembly purposes only and it must not be operated in unassembled condition. The final assembly has to comply with the valid EMC standards.

Drawing DC120W

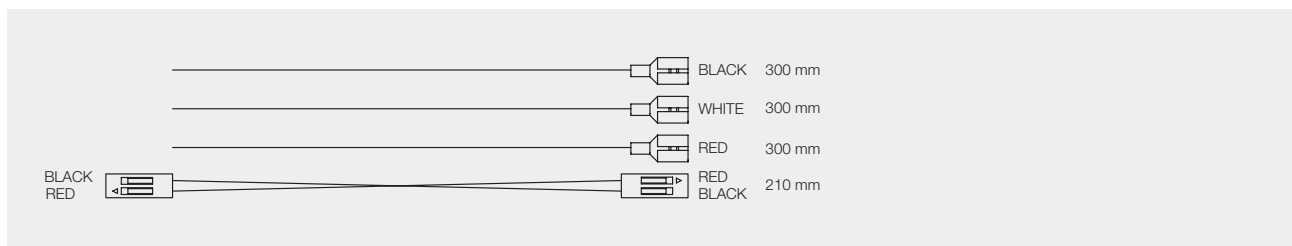


J1: Input +	J2: 12 V (Mainboard)
J4: Input -	J7: ATX (Mainboard)
J3, J5, J6, J8, J9, J10 are not considered	

Cable harness DC120W



Included in delivery, but not required:



Specification is subject to change without notice. Errors excepted. Status as at: 09.12.2011