

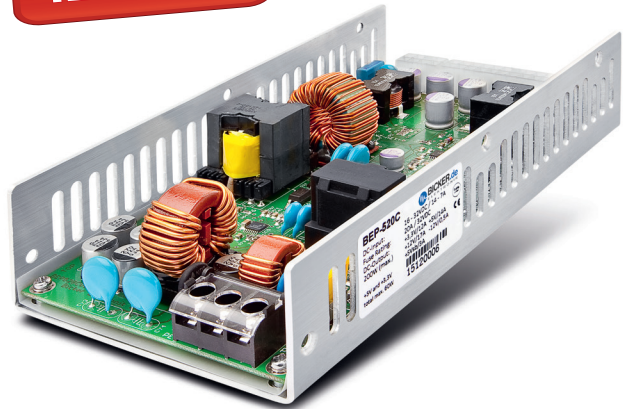
BEP-520C

200 Watt

- ✓ 16...32 VDC input, 200 W continuous fanless power!
- ✓ Only high-quality polymer capacitors
- ✓ Design-Lifetime 12+ Years
- ✓ Constant ripple voltages over the entire temperature range of -20...+70 °C
- ✓ High efficiency > 90 % typ
- ✓ Ideal heat transfer due to improved thermal connection with chassis
- ✓ Galvanic isolation (high insulation voltage)
- ✓ No minimum load required!
- ✓ Cable management system
- ✓ Low standby consumption <0.3 W
- ✓ ErP lot 6 2013 ready



**Design-Lifetime
12+ Years**



DC input

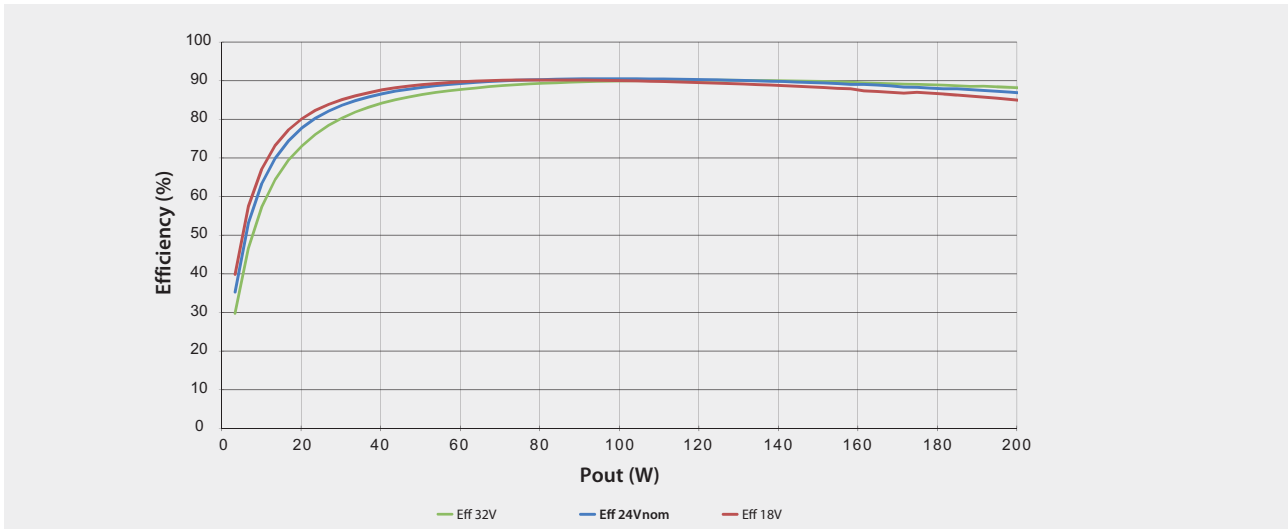
Technical data	
Input voltage	16...32 VDC
Input current	14 A max. (at 18 VDC)
Inrush current	20 A max. (32 VDC)
Efficiency	See diagram
Standby consumption	<0.3 W
Hold up time	1 ms typ. (at 24 V _{DC})
Power-Good signal	Switch on delay 100...500 ms, Switch off delay 1 ms
Protection	Short circuit protection: At each output, switch off Overload protection: 110...160 %, switch off Overvoltage protection: Switch off, +3.3 V (3.6...4.6 V), +5 V (5.5...6.9 V), +12 V (13.2...16.4 V) Overtemperature protection: Switch off
Insulation voltage	Input / Output: 3000 VAC Input / FG: 1500 VAC
Earth leakage current	<3.5 mA
Safety/EMC	CE, Designed according to EN/UL60950 and CCC
Temperature	Operating: -20...+70 °C / Storage: -20...+80 °C
Shock/Vibration	Shock: EN60068-2-27, Vibration: EN60068-2-6, Vibration broadband random: EN60068-2-64
Derating	From +50...+70 °C, 2% / °C, 20...16 VDC: 5%/V 2000 m operation altitude or higher: 12 W / 1000 m <u>or</u> reduction of operating temperature 5 °C / 1000 m
Design-Lifetime	>12 years (24V _{DC} , +40°C, 75% load)
Max. operation altitude	5000 m
Humidity	Operating: 10...90 % RH, non-condensing / Storage: 10...95 % RH, non-condensing
Dimension (WxDxH)	100 x 186 x 39,5 mm ±0.5 mm
Weight (net)	0.8 kg

Article No.	Output voltage	Output current		Load regulation	Ripple & Noise
		min	max		
BEP-520C	+3.3 V	0 A	12 A	±5 %	50 mV
	+5 V	0 A	12 A	±5 %	50 mV
	+12 V	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

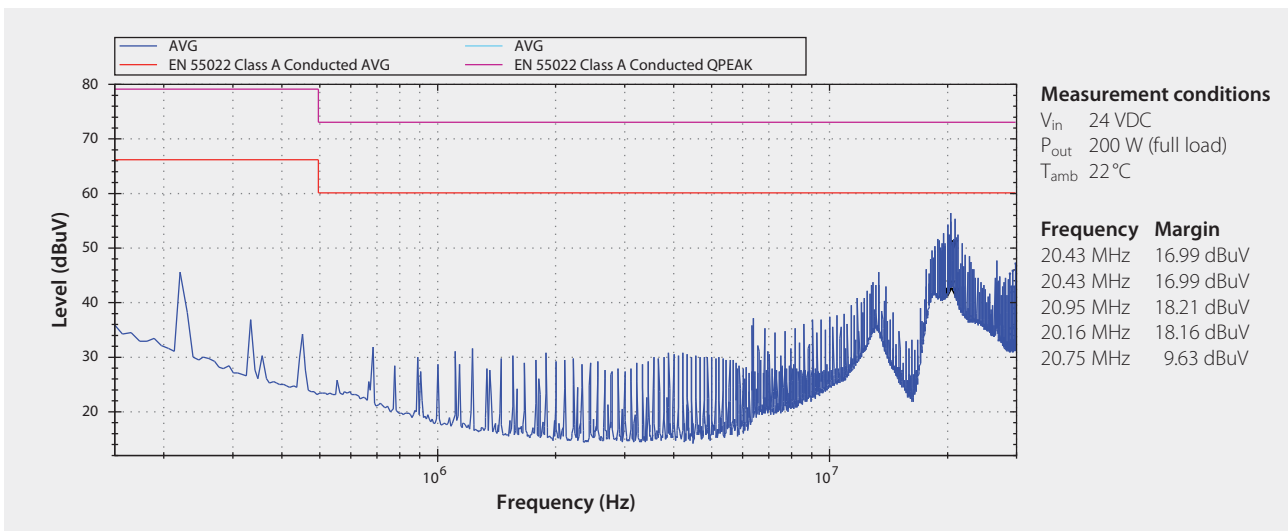
Max. output at +3.3 V, +5 V, +12 V and -12 V is 185 W fanless, max. output at +3.3 V and +5 V is 60 W fanless. Combined max output is 200 W fanless. Ripple and Noise was measured by a 20 MHz bandwidth limited oscilloscope with connected 10 µF and 0.1 µF capacitor at each output.

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.

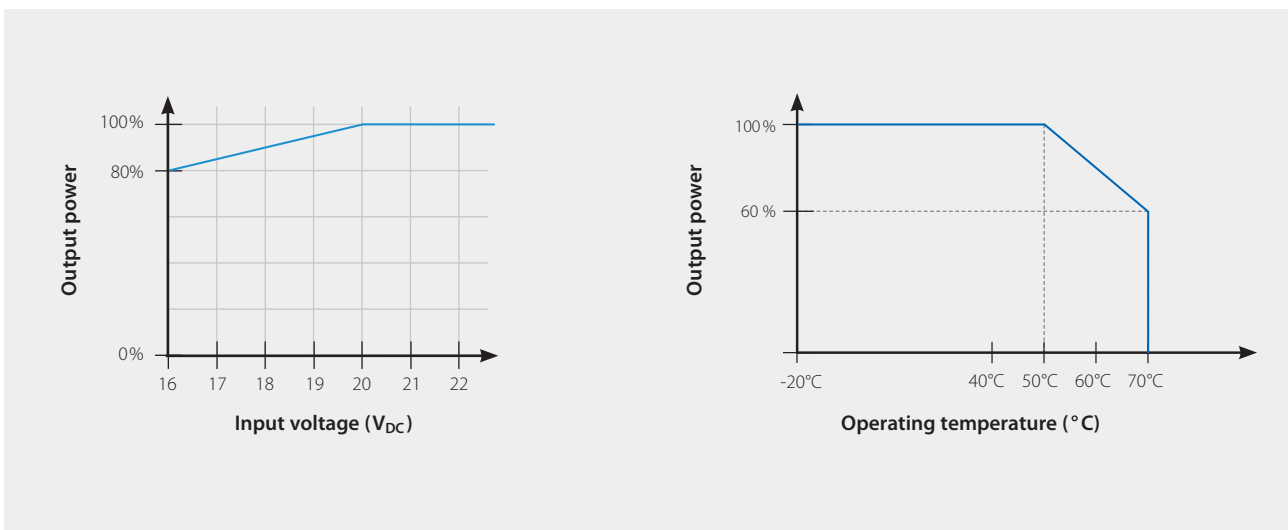
Efficiency



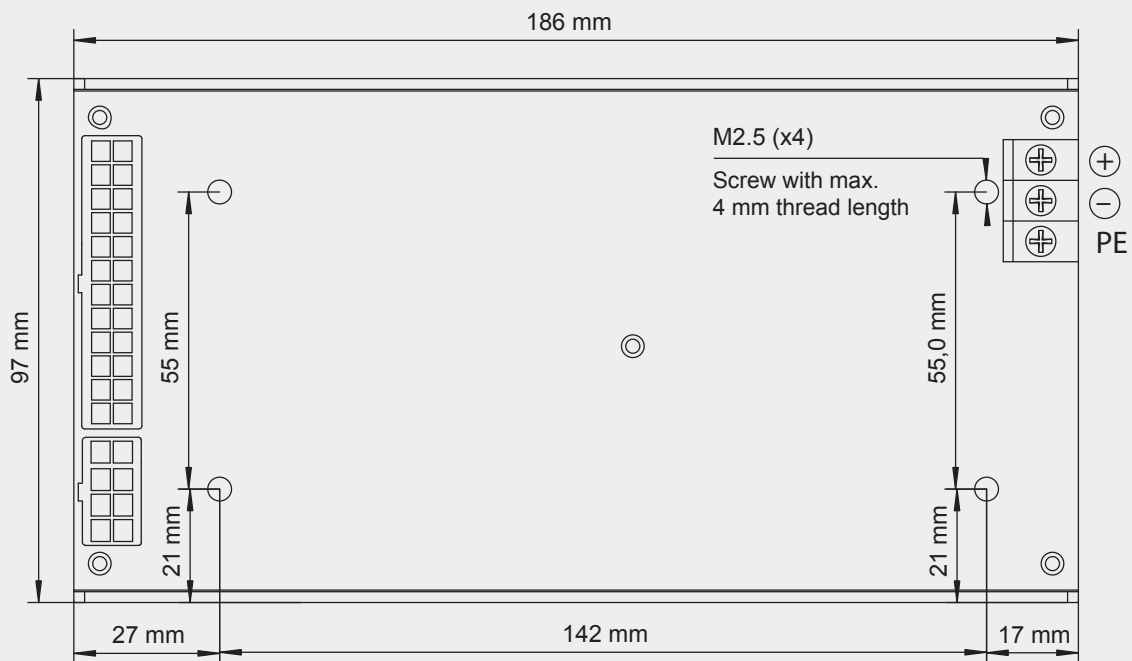
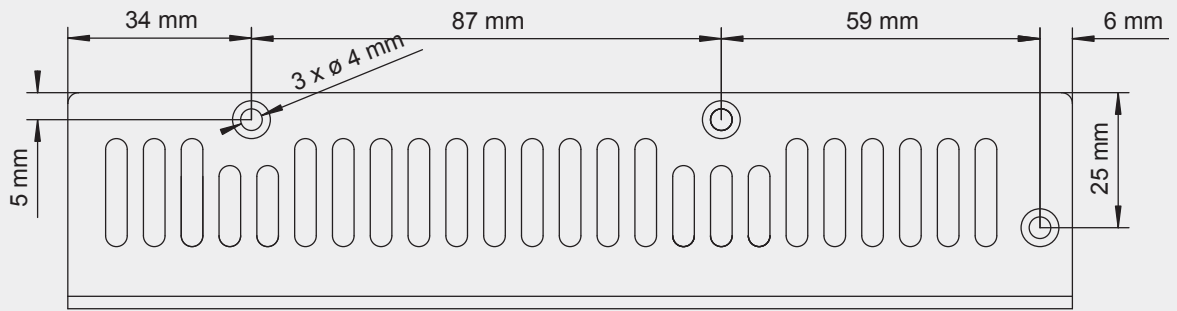
EMC – conducted



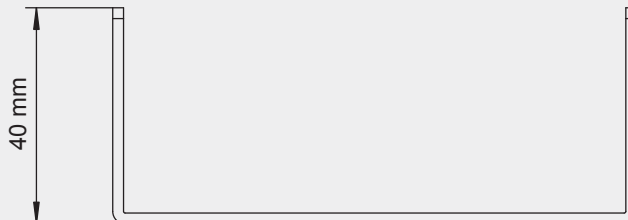
Derating input voltage range and temperature range



Drawing BEP-520C

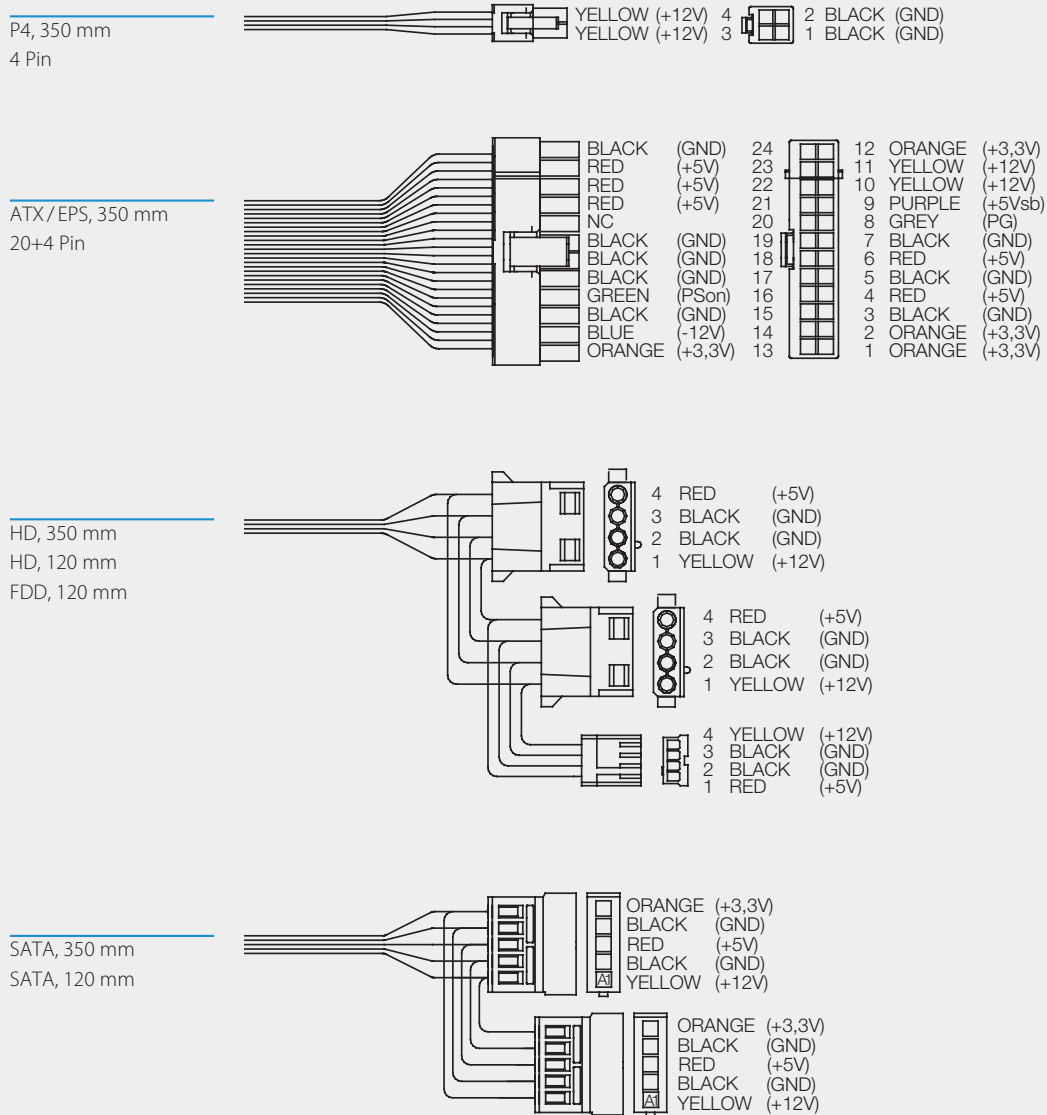


+5Vsb	13	1	PG
-12V	14	2	PSon
GND	15	3	GND
GND	16	4	GND
GND	17	5	GND
GND	18	6	+5V
+5V	19	7	+5V
+5V	20	8	+5V
+3,3V	21	9	+5V sense
+3,3V	22	10	+3,3V
+3,3V	23	11	+3,3V sense
+12V	24	12	+12V
GND	5	1	GND
GND	6	2	GND
+12V	7	3	+12V
+12V	8	4	+12V



Tolerance: ±0.5 mm

Cable harness BEP-520C (included in delivery)



Tolerance ±20 mm