

BES-540C

400 Watt

- ✓ +24V DC input (20...36 VDC)
- ✓ Designed for applications in industry, logistics and transportation
- ✓ TÜV and UL approved
- ✓ EN/UL 62368-1 certified
- ✓ High efficiency >81 %
- ✓ No minimum load required
- ✓ Strong 12 V rail (30 A) for high performance graphic applications
- ✓ Ball beared and temperature controlled fan with tachometer signal for monitoring



DC input

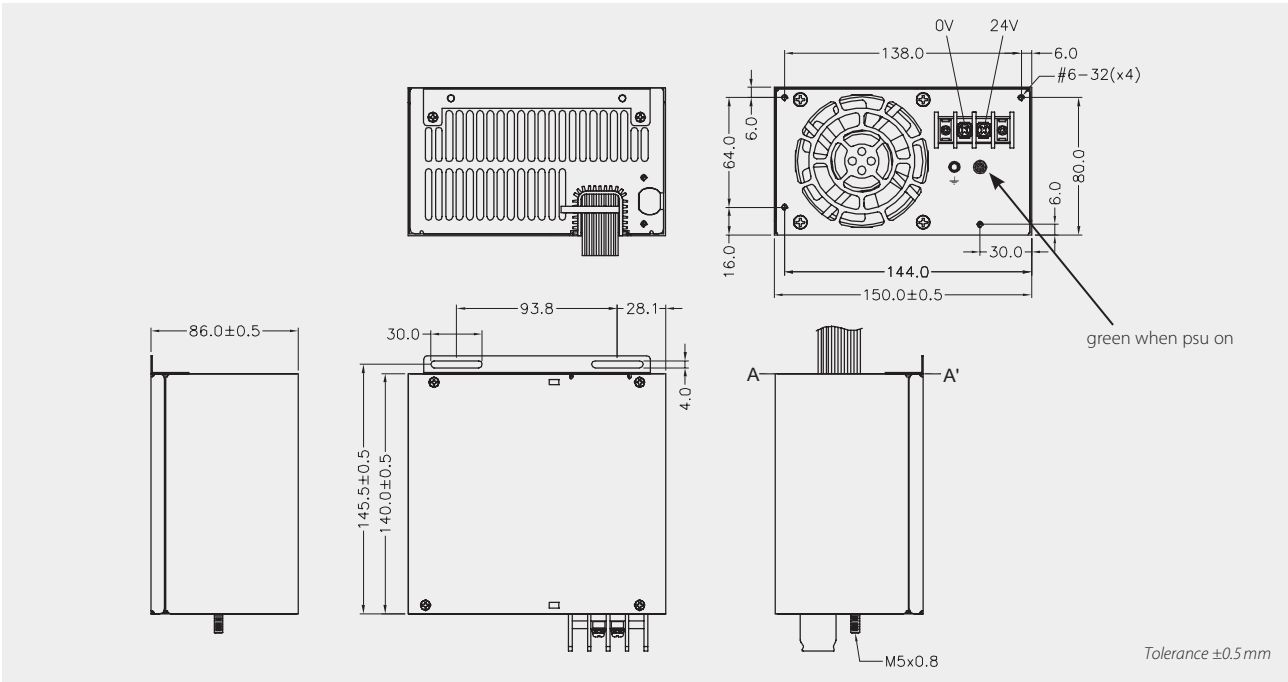
Technical data	
Input voltage	+24VDC (20...36 V)
Input current	22 A max. at 24VDC
Inrush current	<60 A (24VDC / 25°C)
Efficiency	>81 % at full load
Hold up time	App. 1.6 ms
Power-Good-Signal	Switch on delay 100...500 ms
Protection	Short circuit protection: Switch off with auto-recovery Inverse polarity protection input: existing Overvoltage protection: +3.3V (+3.6...+4.3V), +5V (+5.6...+6.5V), +12V (+13.2...+15V), switch off
Insulation resistance	Primary to secondary: 20 meg Ohm min. 500VDC Primary to Frame Gnd: 20 meg Ohm min. 500VDC
Dielectric withstanding voltage for approval purpose	Primary to secondary: 1.5K VAC for 1 sec. Primary to Frame Gnd: 1.5K VAC for 1 sec.
Safety / EMC	CE, EN/UL62368-1
Temperature	Operating: 0...+70°C, startable from -20°C / Storage: -20...+80°C
Derating	+40...+70°C 1% / °C
MTBF	121 000 h according to MIL-HDBK-217F at +50°C with fan
Max. operation altitude	3100 m
Humidity	Operating: 10...85% RH, non-condensing / Storage: 10...90% RH, non-condensing
LED	Standby: off / PSU on: green
Dimensions (WxDxH)	150 x 140 x 86 mm ±0.5 mm
Weight (net)	1.65 kg

Article No.	Output voltage	Output current		Load regulation	Line regulation	Cross regulation	Ripple & Noise
		min	max				
BES-540C	+3.3V	0A	25 A	±5 %	±1 %	±5 %	±50 mV
	+5V	0A	25 A	±5 %	±1 %	±5 %	±50 mV
	+12V	0A	30 A	±5 %	±1 %	±5 %	±120 mV
	-12V	0A	0.8 A	±10 %	±1 %	±5 %	±120 mV
	+5V _{sb}	0A	3.5 A	±5 %	±1 %	±5 %	±50 mV

Max. output power is 400W, combined max. output power at +3.3V and +5V is 35A. Ripple and Noise was measured by a 20MHz bandwidth limited oscilloscope with connected 220µF electrolytic capacitor and 100nF ceramic capacitor at each output.

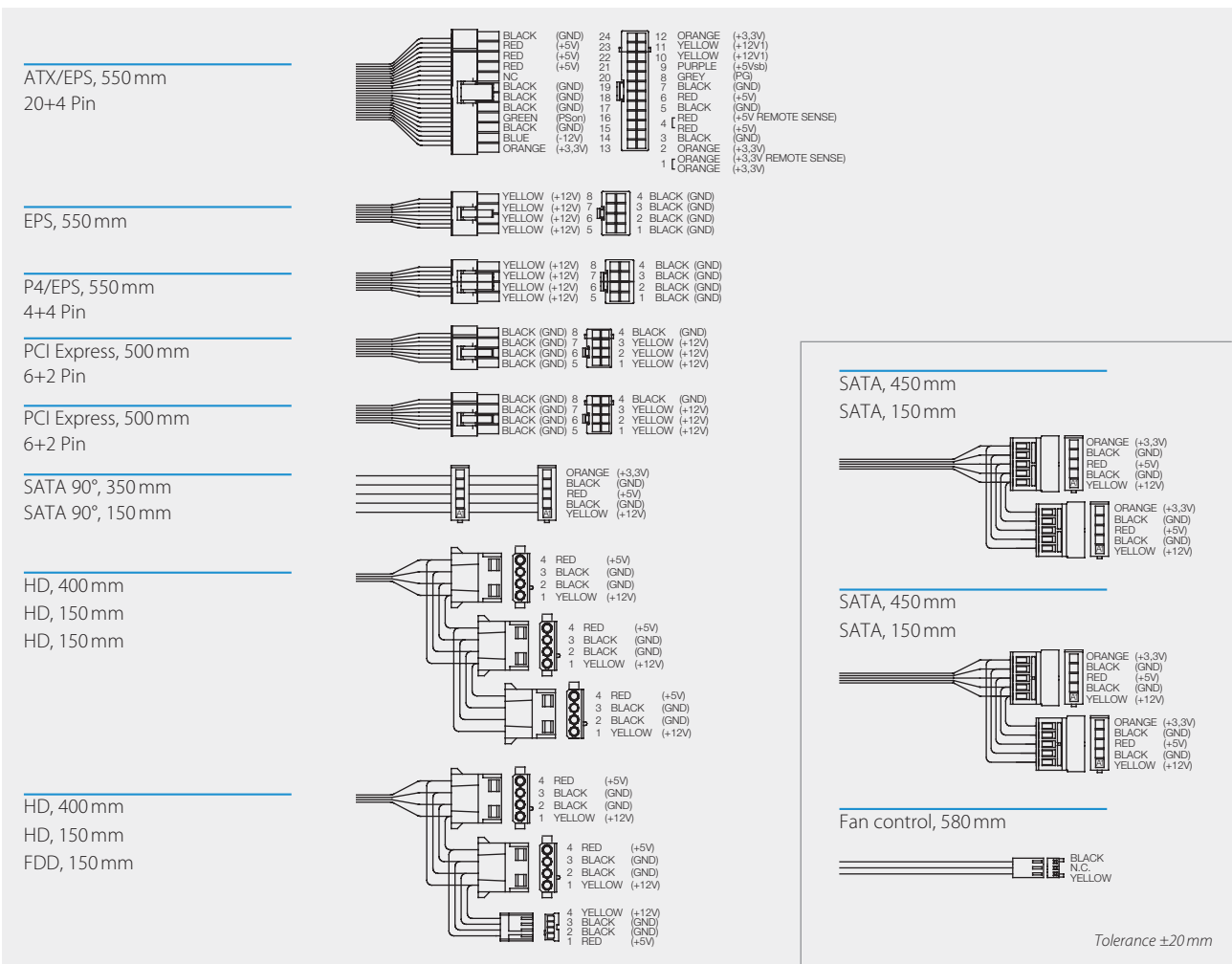
As a power component this PSU is for assembly purposes only and must not be operated in unassembled condition. The final assembly has to comply with the valid EMC and safety standards.

Drawing BES-540C



DC input

Cable harness BES-540C



Specification is subject to change without notice. Errors excepted. Status as at: 21.03.2024