

BES-640C

400 Watt

- +24 V DC input
- Temperature-controlled ball-bearing fan
- Impressive 30 A at 12 V

The 400 W DC PC power supply BES-640C provides a 24 V DC input for powering computer systems applied in automation or mobile systems. Due to its widerange input from 18 to 36 V DC the BES-640C remains unaffected by input voltage fluctuations. Thanks to its good performance of 30 A at the +12 V output it is the ideal power supply for high-performance computer systems.



Technical data

| | |
|-----------------------|---|
| Input voltage | 24 VDC (18...36 V) |
| Input current | 25 A max. at 24 VDC |
| Efficiency | App. 75 % at full load |
| Hold up time | App. 4 ms at +24 V and full load |
| 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: +3.3 V (+3.9...+4.1 V), +5 V (+6.1...+6.5 V), +12 V (+13.8...+14.8 V), Switch off |
| Safety / EMC | CE, designed according to EN 60950, UL60950, CE |
| Operating temperature | 0...+70 °C |
| Derating | +50...+70 °C 1.25 % / K |
| Storage temperature | -20...+80 °C |
| Operating humidity | 20...85 % RH, non-condensing |
| Dimensions | 150 x 140 x 86 mm ±0.5 mm |
| Weight (net) | 1.65 kg |

Product specific data

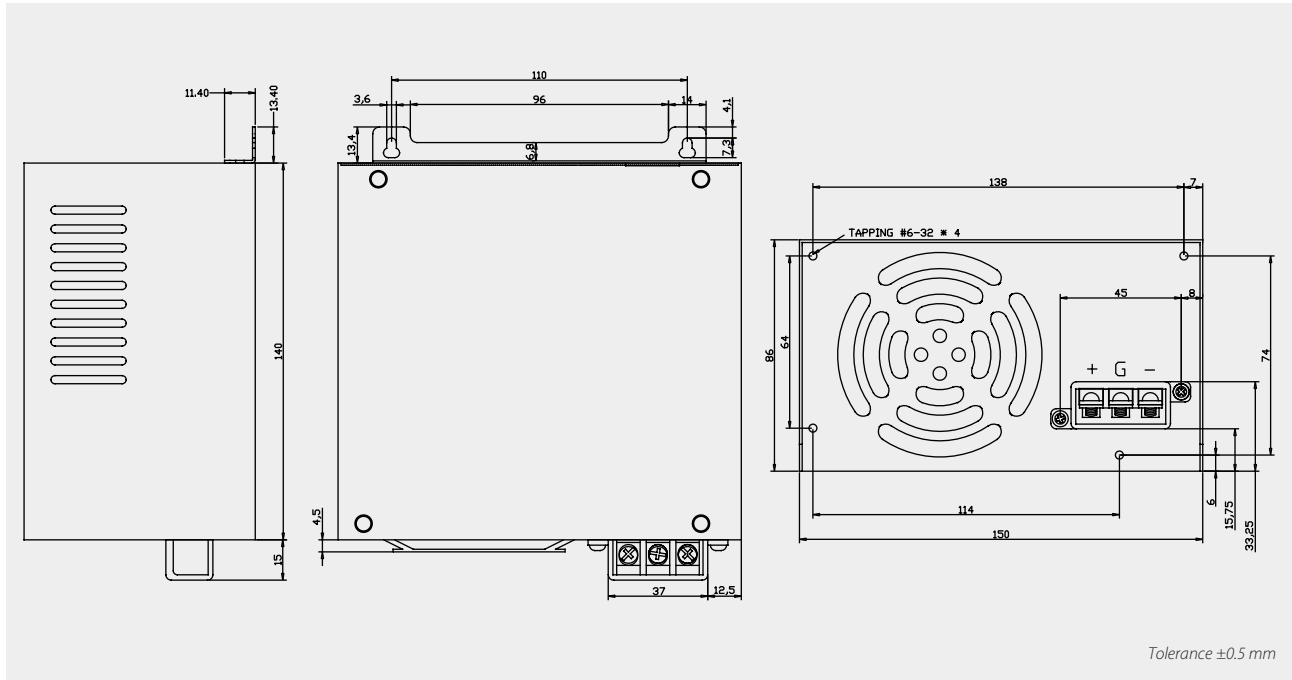
| | |
|-----------------------|-----------------------------|
| Max. operating height | 10 000 feet above sea level |
|-----------------------|-----------------------------|

| Article No. | Output voltage | Output current | | Load regulation | Line regulation | Cross regulation | Ripple & Noise |
|-------------|--------------------|----------------|------|-----------------|-----------------|------------------|----------------|
| | | min | max | | | | |
| BES-640C | +3.3 V | 0 A | 30 A | ±5 % | ±1 % | ±5 % | ±50 mV |
| | +5 V | 2 A | 50 A | ±5 % | ±1 % | ±5 % | ±50 mV |
| | +12 V | 1 A | 30 A | ±5 % | ±1 % | ±5 % | ±120 mV |
| | -12 V | 0 A | 1 A | ±8 % | ±1 % | ±5 % | ±120 mV |
| | -5 V | 0 A | 1 A | | ±1 % | ±5 % | ±50 mV |
| | +5 V _{sb} | 0 A | 2 A | ±5 % | ±1 % | ±5 % | ±50 mV |

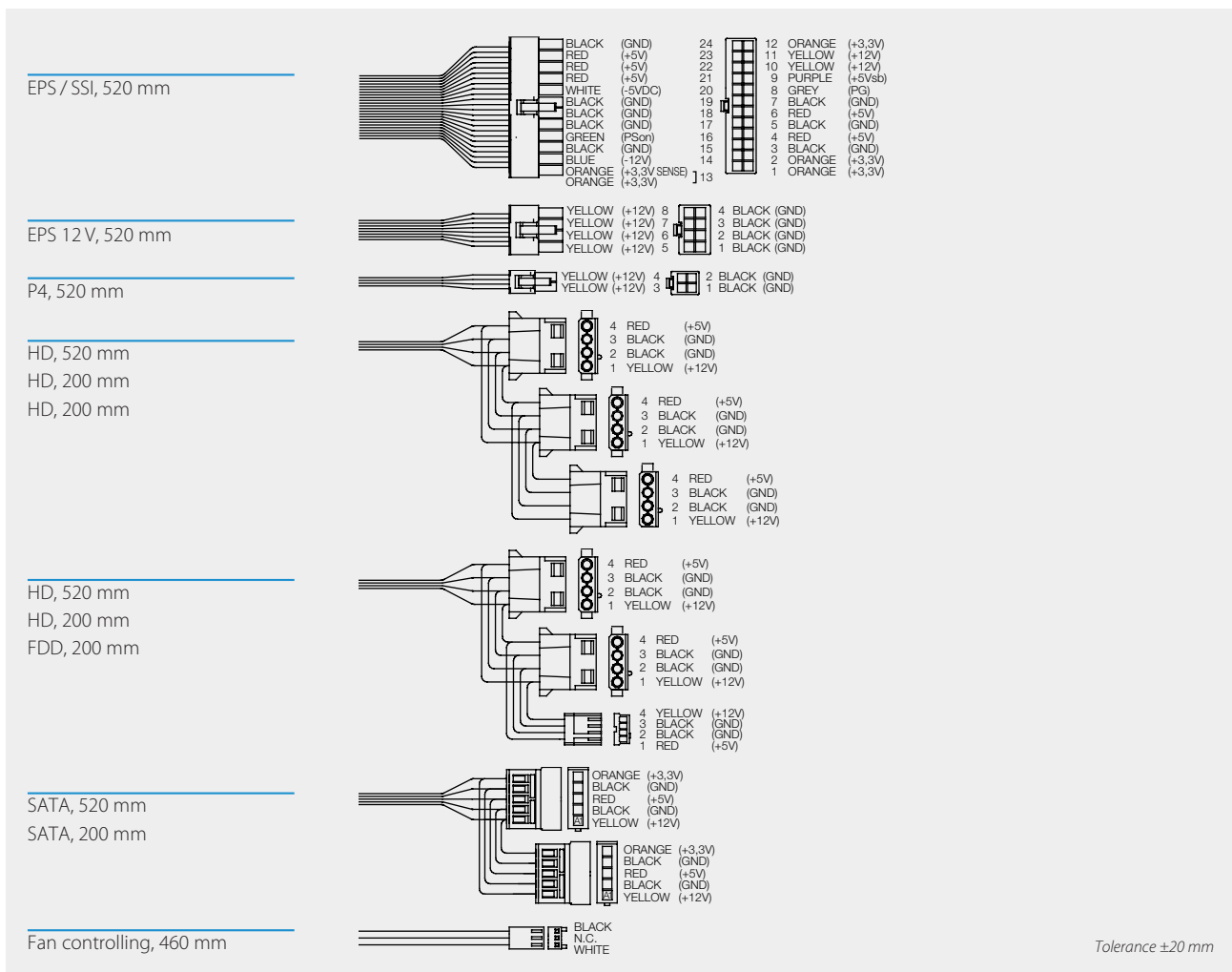
Max. output power is 400 W, combined max. output power at +3.3 V and +5 V is 250 W. The +5 V output can supply up to 30 A if +12 V / >3 A is connected. From +5 V / 40 A onwards a load of >10 A must be connected at +12 V. The +12 V output can supply up to 30 A if +5 V / >4 A is connected. Load regulation was done at 60 % of maximum load. Ripple and Noise was measured by a 20 MHz bandwidth limited oscilloscope with connected 10 µF electrolytic capacitor and 100 nF 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-640C



Cable harness BES-640C



Specification is subject to change without notice. Errors excepted. Status as at: 22.04.2010