

DPSM-6500F-B1

500 Watt

- Double isolated
- Rugged design
- Impressive 40 A at +12 V

The DC PC power supply DPSM-6500F-B1 has been designed for use in industry, telecom and transport. Thanks to its high input voltage ranging from -36...-72 VAC it can be supplied via -48 VDC as well as a -60 VDC mains. Together with a powerful 40 A power supply at the +12 VDC output, it ensures safe power supply even for high-performance graphic applications. The high-quality fan of a well-known brand is temperature-controlled and, of course, ball-bearing.



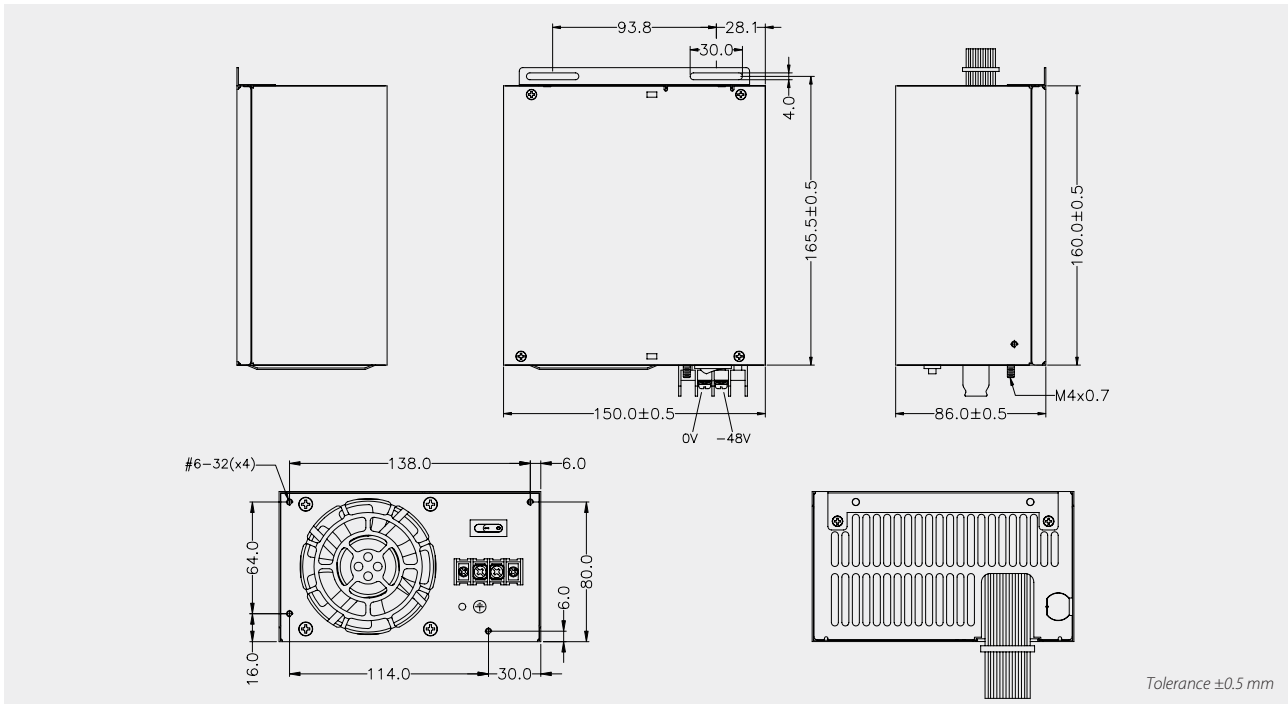
Technical data	
Input voltage	-48 VDC (-36...-72 V)
Input current	16 A max. at 48 VDC
Inrush current	30 A (-48 V)
Efficiency	App. 75 % at full load
Hold up time	1.6 msec
Power-Good-Signal	Switch on delay 100...500 ms
Protection	Short circuit protection: Switch off with auto recovery Overload protection: 110...175 % Overvoltage protection: +3.3 V (+3.7...+4.1 V), +5 V (+5.7...+6.2 V), +12 V (+13.3...+14.3 V) Overcurrent protection: +3.3 V (33...40 A), +5 V (33...40 A), +12 V (55...65 A)
Safety / EMC	UL, TÜV, CB, CE-EN55022 class A
Operating temperature	0...+50 °C
MTBF	157 000 h at +50 °C, without fan
Storage temperature	-20...+80 °C
Operating humidity	5...90 % RH, non-condensing
Dimensions	150 x 160 x 86 mm ±0.5 mm
Weight (net)	2.5 kg

Article No.	Output voltage	Output current min	Output current max	Load regulation	Line regulation	Cross regulation	Ripple & Noise
DPSM-6500F-B1	+3.3 V	0 A	30 A	±3 %	±1 %	±5 %	±50 mV
	+5 V	0 A	30 A	±3 %	±1 %	±5 %	±70 mV
	+12 V	2 A	40 A	±3 %	±1 %	±5 %	±100 mV
	-12 V	0 A	0.8 A	±5 %	±1 %	±5 %	±100 mV
	-5 V	0 A	0.8 A	±5 %	±1 %	±5 %	±50 mV
	+5 V _{sb}	0 A	2 A	±5 %	±1 %	±5 %	±60 mV

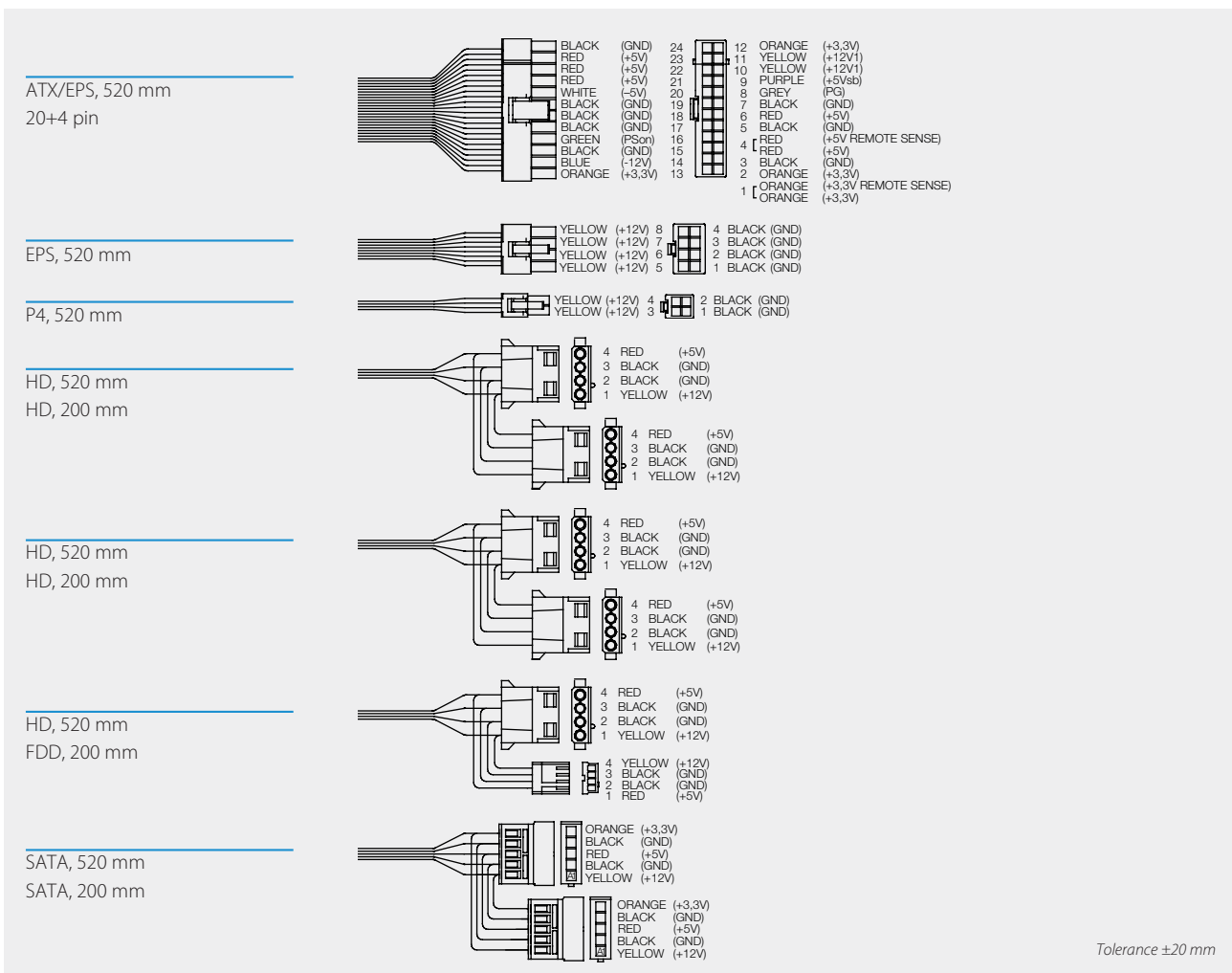
Max. output load is 500 W, combined output load at +3.3 V and +5 V is 40 A. The +5 V and the +3.3 V output can supply 20 A each, if a minimum load of +12 V / >2 A is connected. Combined +5 V and +3.3 V output can supply 30 A, if a minimum load of +12 V / >4 A is connected. Load regulation was done at 60 % of maximum load. Ripple and Noise was measured by a 20 MHz bandwidth limited oscilloscope with connected 220 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 DPSM-6500F-B1



Cable harness DPSM-6500F-B1



Specification is subject to change without notice. Errors excepted. Status as at: 19.10.2011