

TECHNICAL DATA SHEET

FORCE 500W

Model: FO28XD | P/N: FO28XD



KEY FEATURES			
• ATX12V Version 2.3		• Thermal fan speed control	
• 230 VAC input		• Black chassis	
• 120 x 120 x 25 mm cooling fan		• Dimensions: 150 x 140 x 86 mm	
ELECTRICAL SPECIFICATIONS			
Input voltage	230 VAC	Maximum output power	500 W
Frequency	47-63 Hz	Hold-up time	>12 ms at full load
Input current	6 A at 230 VAC	Rise time	<20 ms at full load
Efficiency	70% at full load	Power Good signal	TTL compatible
Inrush current	<60 A peak, cold start	Cooling	120 mm fan
PROTECTION FEATURES			
OVP	OPP	SCP	OCP
Over Voltage Protection (+3.3 V / +5 V / +12 V)	Over Power Protection (120-160%)	Short Circuit Protection (latch-off)	Over Current Protection
DC OUTPUT RATINGS			
Output rail	Minimum current	Maximum current	Combined rating / notes
+12 V1	1 A	15 A	
+12 V2	1 A	16 A	
+5 V	0.5 A	16 A	
+3.3 V	0.5 A	22 A	
-12 V	0 A	0.8 A	
+5 VSB	0 A	2.5 A	
+3.3 V and +5 V combined load: 130 W			
+3.3 V, +5 V and +12 V combined load: 480 W			
Total power rating: 500 W			

DC CONNECTORS			
• 1 x ATX 20+4-pin, 60 cm		• 1 x Peripheral 4-pin (IDE Molex)	
• 1 x 4-pin connector, 60 cm		• 1 x FDD	
• 3 x SATA			
VOLTAGE REGULATION			
Rail	Permitted range	Tolerance	
+12 V1	11.4-12.6 V	+/-5%	
+12 V2	11.4-12.6 V	+/-5%	
+5 V	4.75-5.25 V	+/-5%	
+3.3 V	3.14-3.47 V	+/-5%	
-12 V	-10.8 to -13.2 V	+/-10%	
+5 VSB	4.75-5.25 V	+/-5%	
RIPPLE AND NOISE LIMITS			
Rail		Limit	
+12 V1		150 mVp-p	
+12 V2		150 mVp-p	
+5 V		80 mVp-p	
+3.3 V		100 mVp-p	
-12 V		150 mVp-p	
+5 VSB		80 mVp-p	
ENVIRONMENTAL / COMPLIANCE			
Operating temperature	5 to 40 deg C	Storage temperature	-20 to 70 deg C
MTBF	>80,000 hours at 80% load, 25 deg C	EMI/RFI	FCC Part 15 Class B; CISPR 22 Class B
Compliance	CE	Form factor	ATX12V Version 2.3