

TECHNICAL DATA SHEET
FORCE 850W

80 PLUS Bronze
Model: FP-850W | P/N: FP-850W



KEY FEATURES

• ATX12V Version 2.3	• 120 mm silent cooling fan
• 80 PLUS Bronze efficiency class	• Matte black chassis
• Active PFC circuit	• Dimensions: 140 x 148 x 85 mm

ELECTRICAL SPECIFICATIONS

Nominal input voltage	230 VAC	Maximum output power	850 W
Frequency	50-60 Hz	Hold-up time	>12 ms at full load
Rated input current	4 A at 230 VAC	Rise time	<20 ms at full load
Inrush current	<60 A peak, cold start	Power Good signal	TTL compatible
Cooling	120 x 120 x 25 mm fan	Form factor	ATX12V Version 2.3

PROTECTION FEATURES

OVP	OPP	OTP	UVP	SCP
Over Voltage Protection (+3.3 V / +5 V / +12 V)	Over Power Protection (latch-off)	Over Temperature Protection	Under Voltage Protection	Short Circuit Protection

DC OUTPUT RATINGS

Output rail	Minimum current	Maximum current	Combined rating / notes
+12 V1	0 A	30.5 A	
+12 V2	0 A	30 A	
+5 V	0 A	14 A	
+3.3 V	0 A	14 A	
-12 V	0 A	0.3 A	
+5 VSB	0 A	2.0 A	

+3.3 V and +5 V combined load: 110 W

+3.3 V, +5 V and +12 V combined load: 830 W

Total power rating: 850 W

EFFICIENCY VERIFICATION

Load	Efficiency	Power factor	Source
20%	85.85%	See report	80 PLUS report EU-739
50%	89.32%	See report	80 PLUS report EU-739
100%	87.22%	See report	80 PLUS report EU-739
Average	87.46%	-	80 PLUS verification report

DC CONNECTORS

• 1 x ATX 20+4-pin	• 6 x SATA
• 2 x EPS 8-pin (4+4)	• 2 x Peripheral 4-pin (IDE Molex)
• 2 x PCI-E 6+2-pin	• 1 x FDD

ENVIRONMENTAL / COMPLIANCE

Operating temperature	5 to 40 deg C	Storage temperature	-20 to 70 deg C
MTBF	>50,000 hours at 80% load, 25 deg C	EMI/RFI	FCC Part 15 Class B; CISPR 22 Class B
Compliance	CE; RoHS	80 PLUS report	EU-739; test date 29 Sep 2020