



Power Supply

220W Flex, PFC, 80PLUS

SySTIUM® Technologies Power Supplies are made for embedded applications requiring certifications and long life. We understand the critical function power supplies provide. Our Standards of Excellence are stringent; 24/7/365 for 5 years.

SySTIUM® Technologies is your trusted source for Power Supplies.



PN: 10603-22, ST220-FLX

FEATURES

- Flex Form Factor
- Active Power Factor Correction (PFC)
- High efficiency and reliability
- Low Noise and Ripple
- Output over voltage, short circuit, and over power protection
- Reset after shutdown
- Super low noise fan control
- Internal Fan, 40X20mm 12VDC
- 100% Hi-pot test
- 100% burn-in, high temperature cycled on/off

EMC:

Complies to EN55022:2010 CLASS B, FCC Part 15 & Part 2, CISPR22 Class B

SAFETY:

UL, CCC, NEMKO, IEC60950, UL60950, CE



LONG LIFE QUALITY

EMBEDDED CERTIFIED

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OUTPUT VOLTAGE AND CURRENT RATING

Output Voltage	Min. Load	Max. Load	Load Reg.	Ripple & Noise
+3.3V	0.5A	14A	± 5%	50mV P-P
+5V	0.5A	16A	± 5%	50mV P-P
+12V1	1A	16A	± 5%	120mV P-P
+12V2	1A	10A	± 5%	120mV P-P
-12V	0.0A	0.8A	± 10%	120mV P-P
+5Vsb	0.0A	2.5A	± 5%	50mV P-P

1. 220W(50°C) : +3.3V + 5V + 12V1 + 12V2 = 207W
2. 250W(25°C) : +3.3V + 5V + 12V1 + 12V2 = 237W
3. The +12V1 and +12V2 total output shall not exceed 17A.
4. The +3.3V and +5V total output shall not exceed 110watts.

SPECIFICATIONS

Wattage: 220W

Input Voltage Range: 90 ~ 264Vac (RMS), Full Range Input

Hold-up Time: 17mSec 115V & 230V

Power Factor Correction: 99% typical

Frequency: 47 ~ 63Hz

Input Current: 5A (RMS)

Dimensions

- Length: 150mm (5.9")
- Width: 40.5mm (1.6")
- Height: 81.5mm (3.2")

ENVIRONMENTAL REQUIREMENTS

Temperature:

-Operating: 10°C ~ +50°C

-Storage & Shipping: -20°C ~ +80°C

Humidity:

-Operating: 5 ~ 85% RH, Non-condensing

-Storage: 5 ~ 95% RH, Non-condensing

MTBF: 100,000 hours @ Typical load at +25°C

80PLUS:

- Efficiency: 80% at typical load (AC 115V/230V)
- Standby Power Consumption: <1W@5Vsb/100mA
- Erp Lot: <0.5W

CONNECTORS

1X	20pin + 4pin	
1x	4pin 12V	
2x	4pin Power, Peripheral	
3x	SATA	
1x	4pin Fan	