Power

Novus FXM UPS Series

Outdoor UPS with 650, 1100, or 2000 W/VA Output

- Clean, uninterruptible backup power
- Wide range Automatic Voltage Regulation (AVR) without going to batteries
- Remote communications via RS-232 port or optional SNMP Ethernet interface
- Six independently programmable control and report relays
- Temperature-compensated programmable battery charger
- Event and alarm logging with time/date stamping
- Wide operating temperature range of -40 to 74°C

The Novus FXM UPS series provides backup power ideal for computer, telecommunications, traffic, manufacturing and security applications. The Automatic Voltage Regulator (AVR) offers power stability, reliability, and certainty during unpredictable environmental states and creates voltage equilibrium during varied power conditions. As well, the Novus FXM series of power modules are designed to instantly switch to emergency backup power during any utility power failures or interruptions. The standard input and output voltage is either 120VAC or 230VAC, with an optional 220VAC unit available.

Novus FXM UPS Power Modules

Nominal Specifications

Power Module:	FXM 650**	FXM 1100**	FXM 2000***
Nominal Voltage:	120VAC/230VAC	120VAC/230VAC	120VAC/230VAC
Nominal Frequency:	60Hz/50Hz	60Hz/50Hz	60Hz/50Hz
Input Current*:	8.7A/4.5A	15.5A/8.0A	20A/12A
Output Current:	5.5A/2.8A	9.4A/4.9A	17A/8.9A
Output Power:	650W/VA	1100W/VA	2000W/VA
Output Power at 74°C:	500W/VA	850W/VA	1500W/VA
Battery String Voltage:	24VDC	48VDC	48VDC
Mechanical			
Width (in/mm):	17/432	15.5/394	15.5/394
Height (in/mm):	3.5/89	5.2/133	5.2/133
Depth (in/mm):	9/229	8.75/222	8.75/222
Weight (lb/kg):	25/11	35/16	39/18

Notes:
* At nominal V in and 10A battery charger
** Output power for the FXM 650, and FXM 1100 is de-rated by 1.25% per every degree Celsius above 55˚C
*** Output power for the FXM 2000 is de-rated by 1.0% per every degree Celsius above 50˚C

The power connection panel and the control panel can be rotated for ease of connection and use in any mounting position.

General Specifications

Output

Input Voltage Range (120VAC):	85 to 175VAC without going to batteries
Input Voltage Range (230VAC):	150 to 328VAC without going to batteries
Output Voltage Regulation:	±10% over full input voltage range
Max. Charge Current:	10A – user adjustable to 3, 6 or 10A
Waveform:	Pure sine wave
Typical Efficiency:	>98% (normal mode)
Typical Output Voltage THD:	<3%
Typical Transfer Time:	<5ms
Audible Noise at 1m:	45dBA

Environment

Operating Temperature:	-40 to 55˚C*
Storage Temperature:	-40 to 75˚C
Operating Altitude:	12000ft (3658m)
Humidity (operating):	Up to 95%

* Capable of operating to 74°C at de-rated output power.

FXM 650

Connections

AC Input and Output:	Terminal block (max. 10AWG)
Dry Contacts:	Terminal block (max. 16AWG)
RS-232 Interface:	DE-9 female
Ethernet Interface:	Optional, factory installed RJ-45

Standard Features

- Automatic Voltage Regulation (AVR)
- Automatic frequency sensing (60Hz/50Hz)
- Remote monitor and control communications options:
  Standard RS-232 serial port or optional internal SNMP Ethernet interface
- Novus User Software: A user friendly Windows™ based GUI
- Emergency Power Off (EPO) input
- Variable speed fan with fan failure alarm
- Circuit breaker protection on the input and external battery input
- Three mounting configurations: wall, shelf or rack
- Generator-ready for extended runtime option
- Three user inputs: self test, alarm, shutdown
- 100 historical events logged with time/date stamping
- 24 month warranty

Agency Compliance

Electrical Safety: UL1778, CSA 22.2 No 107.3-03, NEMA 3R
Marks: $_{c}$CSA$_{us}$/CE
EMI: Class A FCC/CISPR [EN 50091-2:1995]

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