





## Options

- Communication Control Card
- RS-232
- Emergency Protection Order (EPO)
- External Battery Temperature Sensor
- Relay contacts
- User Input Contacts
- Remote Monitoring and control
- Software
- Modbus
- SNMP Adapter
- Solar Connection Kit
- 3 Phase Connection Kit
- Remote Monitoring Panel
- Reverse battery connection protection

## Technical Specifications

- Real Sinus Wave for critical loads
- Microprocessor control technology
- Easy use LCD display
- 1-45 A Charger current
- Battery deep discharge protection
- Overload and Short circuit protection
- Voltage, Spike, Surge Protection
- Internal Automatic Voltage Regulation
- Adjustable Voltage Frequency and Battery Charger Current
- Longer Battery Lifespan with Smart Battery System
- Electrical Generator Module for special applications
- Low noise level with Smart Cooling Fan
- Fault alarms and status alerts
- Auto restart
- Start from the battery
- Sleep mode for energy saving
- Power factor correction in battery operation
- Low output THD (<3%) when operating from battery
- Easy installation and maintenance
- Compact design

Model	JMF 3000	JMF 6000
Capacity (VA)	3000	6000
<b>Input</b>		
Voltage Bandwith	165 VAC- 265 VAC (UPS AVR mode)	
Frequency	50 or 60 Hz ±5%(Automatic)	
<b>Output</b>		
Power Factor	0,	
Voltage (Battery)	220VAC/230VAC ±5%	
Wave From	Sinus Wave	
Frequency (Battery)	50 or 60 Hz ± Automatic	
Voltage Regulation (AVR Mode)	165<Mains>198>output +%12 265 >Mains>242> output -%12 165>Mains> inverter mode 265>Mains > inverter mode	
Output Time	<4 ms (Ups mode)	
Transfer Period (Gen Mode)	1-10 sec (Delay time adjustable)	
Overload (Battery /MAins)	UPS automatic %110 load load 10 sec/ %125 load 3 sec	%110 load 10 mins and % 125 load at 1 min
Output	Barrier type terminal & panel type terminal	
<b>Battery</b>		
Battery Type	Dry type SLA Type (selectable)	
Voltage	24 VDC	48 or (60VDC or 72 VDC optional)
Charge Current	1-20A(Standard)	1-40A (Standard)
Battery Quantity	Int. Batt. Model 8x12V/7 Ah-9 Ah	16x12V / 7Ah – 9Ah
	Ext. Batt. Model 4x12V /40Ah-200 Ah	8x12V/80Ah-200Ah
Battery Protction& Spec.	Auto test (Monthly), Deep discharge protection, On-line replaceable battery	
<b>LCD Display and LED</b>		
LCD Display and LED Display	Input voltage & frequency, output voltage & frequency, load percentage, battery voltage & percentage, 128 error recording, temperature display, operating status	
<b>Alarms and Warnings</b>		
	128 Fault logging, mains failure, battery low & high, overload and overcurrent (short circuit), mains low & high overheat	
<b>Protection</b>		
	Spike Protection(320 joule, 2 ms), Overload-Short Circuit-Over temperature- Output Voltage	
<b>Communication and Connection</b>		
Interface (Optional)	RS 232, 3 pcs output relays, 2 pcs input contacts, EPOBattery Temp. Sensor, Solar	
Modbus	Optional	
Solar Connection	Optional	
Remote Monitoring	Optional	
3 Phase Connection	Optional	
SNMP	Optional	
<b>Enviromental Conditions</b>		
Operational Temperature	20-40	
Humidity	0 and %90 uncondensed humidity	
Noise Level	<40 dBA	<45 dBA
Protection Level	IP20	
<b>Physical Attributes</b>		
Weight with battery (kg)	58	72
Weight without battery (kg)	38	52
Dimensions (mm)	220x500x390	220x620x390



[www.jcbenergy.es](http://www.jcbenergy.es)