



... principle safety

UPS Uninterruptible Power Supply

**Model: Maxi-J G
10-100 kVA**

Parallel Redundant UPS System for Modularity and Upgrade

Technical Specifications



Modular UPS System - Hot Swap Plug-In Module

MAXI-J G is a modular UPS system based on true on line battery topology.

The **MAXI-J G** is a breakthrough concept in UPS technology and marks the beginning of a new generation of UPSs.

- Redundancy
- Flexibility & expansion option
- Incredible power density (volume per capacity)
- Management and communications options
- User and environment friendly system
- Smaller footprint
- Lower heat Dissipation

All this and more in one UPS system - the **MAXI-J G**

Our UPS Grows With Y o u r Business

Parallel Redundant Structure

MAXI-J G is a parallel redundant UPS. The system comprises from 1 to 10 UPS modules each of 10KVA, a system controller, centralized static switch module and distribution block. It can be configured as a 3/3, 3/1 or a 1/1 system.

In short - safer load!

Flexibility and Modularity

MAXI-J G gives you maximum flexibility - it can be extended as the load increases, by simply sliding in more modules.

MAXI-J G is truly modular - upgradeable from 1 to 10 modules, each of 10kVA, allowing you to assemble a UPS system of up to 100kVA!

True On-Line Battery – VFI

MAXI-J G is designed according to IEC- 62040-3 standard: “The Inverter always supplies the power to the load and it takes its power from either the a.c. input via the rectifier or from the battery. The rectifier has to be controlled so as to recharge and maintain the battery in a charged condition”.

In other words, the battery is connected between rectifier output and inverter input on common DC link.

Green Power System

MAXI-J G is based on green power technology.

The system has a unity input power factor (0.99) and a very low input THD. It operates in Continuous Current Mode (CCM), reducing line interferences (RFI / EMI).

In short - clean environment!

Active Current Sharing

The system has active current sharing at the input / output and battery.

In short - higher reliability!

High Efficiency

MAXI-J G has an output efficiency of up to 96%, and 98% efficiency during back up mode.

In short - savings on electricity bills!

Light & Compact

Only 9Kg per module!

MAXI-J G light weight and small dimensions allow for easy maintenance, reduced shipping costs and smaller foot print.

Control & Management

Maxi-J G Controller

The **MAXI-J G** sophisticated controller includes a unique true power analyzer, yet it does not become a "single point of failure".

Allows veraiaty of communication options, like TCP/IP, wireless cellular communication. It has a bilingual LCD - English & Spanish.

Management Application

MAXI-J G controller has an internal communication card - GMaCi - and can be managed by Ethernet software.

AdPoS **PSM-MAXI-J G** UPS management software enables monitoring and controlling of the **MAXI-J G** as well as automatic computer shutdown. The user-friendly GUI provides real-time monitoring which permits detailed operational control.

MAXI-J G can also be managed via wireless cellular communication, the **WING**. By connecting a **WING** card to the UPS, text messages regarding the UPS status and alarms can be sent to any cellular phone or PC with a wireless modem. The **WING** allows communication to and from the **MAXI-J G**. It enables the activation of the UPS in real-time, for example: turn on/off a module, battery test, LVD open/close, and more.

MAXI-J G Controller

Micro Controller core	16 bit
Display	4x40 Characters LCD with backlight
Other indications	8 LED's, buzzer
Analog input channels	4
Digital input channels	8
Real Time Clock (RTC)	With backup
Volt-Free outputs (dry contacts)	6
RS232 User Port	Isolated
Communication	TCP/IP; GPRS/SMS; Wireless cellular (optional)
Communications with system modules	Serial, isolated
Events Log	255 events
System operation without controller	Continuous without disruption
On-Screen Parameters	Load Bar-Graph; 3-phase Voltages; 3-phase Currents; Battery Voltage;
	Status of each UPS module; Static-Switch parameters and status; Battery Sensor Temperature
Language	English & Spanish
Power Meter	Input & Output KW, KVA, PF
Alarms	AC abnormal; DC abnormal; UPS module(s) failure; Load on By Pass; Battery test failed; Overload; Over/Under temperature

MAXI-J G SA

10KVA Stand Alone

On-Line Double Conversion UPS True On-Line Batteries

- Flexible use - available in 3/3, 3/1 and 1/1
- Unique light and compact design - only 18Kg electronic cabinet!
- Great performance:
 - ✓ High efficiency AC/AC 96%
 - ✓ Low input THDi 5%
 - ✓ Input PF 1
 - ✓ LCD with back light



MAXI-J G 19"

MAXI-J G 19" allows you to house the excellent module, controller and STSW in any 19" rack you want.

This solution allows you a lower cost solution for 10kVA and 20kVA UPSs in 19" rack.

The kit includes 10KVA Maxi-J G module, controller with STSW and a 19" shelf to house the above.

Dimensions:

- Height: 4U for 10kVA; 6U for 20kVA
- Width: 19"
- Depth: 580mm (including plug-in connectors in rear side of shelves)

Options:

1. The system can be used for 3/3, 3/1, 1/1
2. Upgrade to 2x10KVA. total system will be 6U in this case.



TECHNICAL SPECIFICATIONS – Maxi-J G

Topology	True Online Battery, Double Conversion VFI
Construction	Modular Parallel Hot-Plugged Modules, Continuous Operation
INPUT	
Voltage	3 X 400V +N
Voltage Range	-27% and +20%
Current	15A per phase for a single module, no inrush current at startup
Frequency	47-63Hz
Power Factor	0.99
THDI	5%
OUTPUT	
Rated Power	10kVA/8kW to 100kVA/80kW
Frequency Tracking Range	±1, ±2, ±3Hz (selectable)
Frequency (in free-running mode)	50/60Hz ± 0.1%
Slew Rate	1Hz/sec
Voltage	3 X 400V+N
Static Regulation	±1%
Regulation for Unbalanced Load	±1% for 100% Unbalanced load
Dynamic Response to 100% Load Step	±2%
Overload	110% for 10 min.;125% for 60 sec.;1000% for 1 cycle
Waveform	Sinusoidal
THD	Less than 2% for linear load
Load CF (max)	6:1
AC-AC Efficiency (nominal)	Up to 96%
DC-AC Efficiency (nominal)	Up to 98%
BATTERIES	
DC-Link Voltage	±340 to ±425V
No. of Batteries	64 x 12V
GENERAL	
Maximum Power Dissipation (Po=8KW)	333W (1136 BTU) for a single module
Ambient Temperature	-10÷C to +40÷C (operating); -20÷C to +60÷C (storage)
Relative Humidity	95% max non-condensing
Altitude	1500m w/o derating
Enclosure	IP20
Cooling	Forced - Multi-Fan with speed control
STANDARDS	
EMC Emission	EN50091-2 Class A ; IEC 62040-2
EMC Immunity	EN50082-2
Safety	E50091-1 ; IEC 62040-1-1
Design	EN50091-3 ; IEC 62040-3
Low Magnetic Field Radiation	EMF as per ICNIRP
DIMENSIONS	
10kVA Module (H x W x D)	88mm (2U) x 483mm (19") x 455mm
Weight	9Kg