

GridtoGo™ Datasheet



complete power solutions

gridtogo™ INGENIUM MX30

Features:

- 400/230V 50Hz 3Ø output, 30kVA
- GSM Remote monitoring
- Maintenance free battery (Lead or Lithium)
- 30kWh stored energy (option up to 60kWh)
- Full system DC isolator with pre-charge
- 100A pass-through capacity
- 100A Auto full system bypass
- Integrated smart Solar PV storage capability
- Advanced EMS with smart device control
- V50 Power™ for enhanced DC bus stability



3Ø or 1Ø 400/230V



3Ø 400/230V out

General Description

gridtogo™ INGENIUM is a universal Energy Storage System (ESS) ideally suited to a range of applications, delivering reliable power in the most cost effective and environmentally sensitive way. Energy stored within the unit is converted electronically into AC mains voltage. Power can be derived from solar PV, connection to an external grid supply or from a diesel generator or wind turbine. Energy is automatically managed from any or all of these energy sources to ensure the most efficient, lowest maintenance and most sustainable operation. Remote communication ensures real time monitoring and so maintenance can be effected from any location in the world.

The new **gridtogo™ INGENIUM** incorporates many standard features that include automatic system bypass (100A standard), an advanced EMS (Energy Management System) system mimic control panel, local wi-fi connection to a smart hand held device and automatic DC isolator switch with pre-charge feature. Custom configurable input/output arrangement ensures interface to suit your specific needs.

Alternative Battery Technologies

The **gridtogo™ INGENIUM MX** can be fitted with alternative types and capacity of maintenance battery that include OPzV, Lead Carbon or Li-Ion, each offering different properties and to suit specific budgets. Please discuss your needs with a technical advisor to establish the most appropriate specification for your requirements. Depending on the type and capacity of battery that is selected, storage capacity of up to 60kWhrs is possible.

Harsh Environment Preparation

For applications where harsh environmental conditions are anticipated, the **gridtogo™ INGENIUM MX** can be built to a specification that provides a higher level of ingress protection, galvanised enclosure and additional measures to increase resilience to such rigorous conditions. Please discuss your requirements with us.

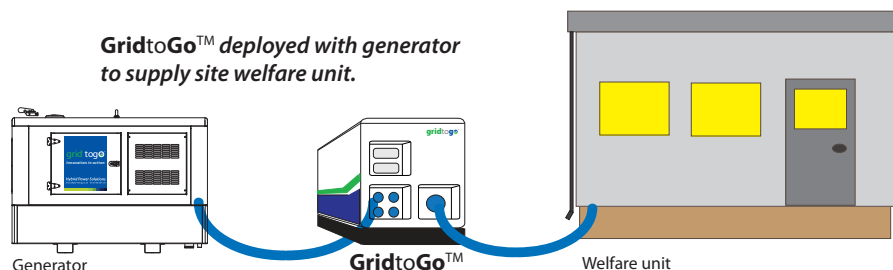
Control and Instrumentation

The **gridtogo™ INGENIUM MX** has sophisticated but easy to use, intuitive controls. Output protection can be customised with adjustable RCD complemented by options for G99 protection on the output. Input phase rotation indication is standard. User interface can be through a simple mimic control panel or by use of a hand-held smart device using wi-fi connectivity.



SPECIFICATIONS			
Output (400/230V 50Hz 3Ø):		Instruments, controls & connections:	
Continuous ac (Inverter)	30kVA	Input connection	3Ø 400V IEC 60309 or hardwire stud
Inverter peak power (5 seconds)	60kW	Optional AC2 input	3Ø 400V IEC 60309 or hardwire stud
Pass-through capacity	100A	Output Connections AC	3Ø 400V IEC 60309 or hardwire stud
Input: (400/230V 50Hz 3Ø):		Cascade ready	✓
AC Maximum input 3Ø or 1Ø	100A	System status control panel	✓
System bypass capacity	100A	Battery condition	✓
Option for second AC input	100A	Battery main isolator	✓
Dimensions:		Output MCB's	✓
Length	1500mm	Programmable gen auto-start signal	✓
Height	1550mm	Optional features:	
Width	1000mm	Integrated MPPT Solar PV charge controller	• PV
Ingress protection rating	IP34 Suitable for outdoor use	High capacity system bypass	• BPS
Standard Finish	Epoxy Powder Coat RAL 9016	Single to three phase conversion	• PC
Noise Levels	Inaudible above background	Harsh environment pack	• HE
Maximum heat rejection	750kW	Free air cooling pack	• FA

STANDARD BATTERY OPTIONS		
Battery Type	OPzV Lead Acid	Li-Ion NMC
Battery design cyclic-life	2000 to 80% dod, 3000 to 60% dod	3000 to 80% dod, 4000 to 60% dod
Nominal Battery Capacity	1600Ahrs @C10	600Ahrs
Useable stored energy	40kWhs	30kWhs
Total unit weight	1950 kg	1150 kg
Operating temperature range	-20°C +55°C	-20°C +55°C



Specifications may change without prior notice. E&OE