# **GridtoGo<sup>™</sup> Datasheet**

# *gridtogo*<sup>™</sup> INGENIUM LX 45-90

## Features:

- 400/230V 50Hz 3 Phase 45kVA Output / 90Kw Storage
- GSM Remote monitoring
- Lithium maintenance free batteries
- 90kWh stored energy
- Full system DC isolator with pre-charge
- 100A pass-through capacity
- Advanced EMS with touch screen control
- V50 Power<sup>™</sup> for enhanced DC bus stability



### **General Description**

*gridtogo*<sup>™</sup> **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 mains power. Power can be derived from integrated solar PV, connection to an external gird 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 best environmental impact is achieved. Remote communication ensures real time monitoring and maintenance can be effected from any location in the world.

#### Many standard features

The new *gridtogo*<sup>™</sup> **INGENIUM** offers optional features that include automatic system bypass with options that range from 125 to 400A meaning connection of up to 300kVA input without need for additional switchgear, an advanced EMS (Energy Management System) with touch sensitive control panel and automatic DC isolator switch with pre-charge feature. Custom configurable input/output arrangement ensures interface to suit your specific needs.

#### Alternative Battery Technologies

Battery type and specification are critical for reliable performance. The *gridtogo*<sup>™</sup> **INGENIUM** unit is available with alternative battery options including Lithium (to 90kW) Please discuss your needs with a technical advisor to establish the most appropriate specification for your requirements.



Custom configured input/ output arrangement so your specific preferences can be met as standard



#### How long does it last?

The most common question to be asked is "how long will the unit last on a single charge?" The answer depends entirely on how fast the stored energy is used up. Power usage is not always steady so it's difficult to be specific but, as a guide, this chart shows typical duration based on average power use as a percentage of rated output.



## complete power solutions



SPECIFICATIONS				
Output (400/230V 50Hz 3Ø):		Instruments, controls & connections:		
Continuous ac (Inverter)	45kVA	Input connection (AC1 & AC2)	IEC 60309 or hardwire stud	
Inverter peak power (5 seconds)	90kW	(AC2)	3Ø 400V IEC 60309 or hardwire stud	
Pass-through capacity	100A	Output Connections AC	3Ø 400V IEC 60309 or hardwire stud	
Input:		Battery condition	√	
AC1 Maximum input 3Ø (Option)	125A	System status control panel	√	
AC2 Maximum input 1Ø	125A 230V	Battery condition	√	
System bypass capacity	125A	Battery main isolator	√	
Dimensions:		Input & Output MCB's	√	
Length	2000mm	Programmable gen auto-start signal	√	
Height	1960mm	Optional features:		
Width	1195mm	Integrated MPPT Solar PV charge controller	• PV	
Ingress protection rating	IP34 Suitable for outdoor use	System AC bypass up to 630A (in lieu of standard)	• 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	9kW	Free air cooling pack	• FA	

STANDARD BATTERY SPECIFICATION		
Battery Type	Lithium	
Battery design life	6000 cycles to 80% dod	
Nominal Battery Capacity (Each)	100 Ah	
Useable stored energy	90kWhrs	
Total unit weight (TBC)	250 <b>0 kg</b>	

#### gridtogo<sup>TM</sup> suporting limited capacity grid to supply EV charging points.



Specifications may change without prior notice. E&OE

TELECOM INDUSTRIAL OFF GRID TEMPORARY POWER UTILITY

