

## BATTERY STORAGE UNIT (LITHIUM ION) 45/100



### Features

- 400/230V 50Hz 3Ø 60kVA
- GSM Remote monitoring
- Deep cycle automotive NMC Li-Ion battery
- 100kWh stored energy
- Full system DC isolator with pre-charge
- 100A pass-through capacity
- Advanced EMS with touch screen control
- V50 Power™ for enhanced DC bus stability

### General Description

gridtogo™ INGENIUM is a universal Battery Storage Unit (BSU) 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 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 best environmental impact is achieved. Remote communication ensures real time monitoring and maintenance can be effected from any location in the world.

### Standard features

The gridtogo™ INGENIUM offers optional features that include automatic system bypass rated at 100A, 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.



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

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### Specification

Output power (400/230V 50Hz 3Ø)	
Continuous ac (Inverter)	45kVA
Inverter peak power (5 seconds)	90kVA
Pass-through capacity	100A

Input	
AC1 Maximum input 3Ø (Option)	100A
System bypass capacity	100A

Dimensions	
Length	2000mm
Height	1960mm
Width	1195mm
Ingress protection rating	IP34 Suitable for outdoor use
Standard Finish	Epoxy Powder Coat RAL 9016
Noise Levels	Inaudible above background
Maximum heat rejection	12kW

Instruments, controls & connections	
Input connection (AC1&AC2)	IEC 60309 or hardwire stud
Output Connections AC	3Ø 400V IEC 60309 or hardwire stud
Cascade ready	✓
System status control panel	✓
Battery condition	✓
Battery main isolator	✓
Input & Output MCB's	✓
Programmable gen auto-start signal	✓

Optional features	
Integrated MPPT Solar PV charge controller	• PV
High capacity system bypass	• BPS
Single to three phase conversion	• PC
Harsh environment pack	• HE
Free air cooling pack	• FA

### Battery Options

Dimensions	
Battery Type	Li-Ion NMC
Battery design life	4000 cycles to 80% dod
Nominal Battery Capacity	2200 Ahs
Useable stored energy	100kWhrs
Total unit weight	2390 kg

Specifications may change without prior notice. E&OE

Example of Battery Storage Unit deployed to support EV Charging solutions.

