

## BATTERY STORAGE UNIT LX 45/90



### Features

- 400/230V 50Hz 3Ø output, 30kVA
- GSM Remote monitoring
- Deep cycle maintenance free OPzV-S battery
- 90kWh stored energy
- Full system DC isolator with pre-charge
- 100A pass-through capacity
- Integrated smart Solar PV storage capability
- Advanced EMS with smart device control
- V50 Power™ for enhanced DC bus stability

### General Description

gridtogo™ INGENIUM is a universal Battery Storage Units (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.

The new gridtogo™ INGENIUM incorporates many standard features that include automatic system bypass (100A standard), 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.

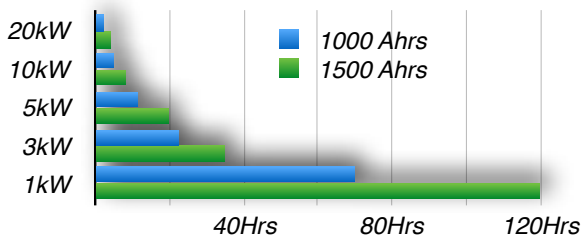
### Cascade for more power

All units are supplied 'cascade ready' so multiple units can be used together for more power and battery capacity.

### 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.

Duration vs average load based on OPzV-S lead acid battery



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)	30kVA
Inverter peak power (5 seconds)	60kVA
Pass-through capacity	100A

Input	
AC1 Maximum input 3Ø (Option)	125A
AC2 Maximum input 3 phase	125A
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	6kW

Instruments, controls & connections	
Input connection (AC1&AC2)	IEC 60309 or hardwire stud
(AC2)	3Ø 400V 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	Gel lead acid OPzV-S
Battery design life	2000 cycles to 80% dod, 3000 cycles to 60% dod
Nominal Battery Capacity	1500Ahrs
Useable stored energy	90kWhrs
Total unit weight	4000 kg

Specifications may change without prior notice. E&OE

Example of a Battery Storage Unit set up - deployed with generator to power welfare unit(s).

