

BATTERY STORAGE UNIT SINGLE PHASE 16/33



Features

- 16KVA 230V 50Hz
- Deep cycle sealed battery
- Automatic generator start
- Maintenance free
- Zero emissions
- Zero noise

General Description

GridtoGo™ is a portable power unit that is noise and emission free. Energy stored within the unit is converted electronically into mains power. The unit can be re-charged by connecting to a mains power supply or from a generator. It is also possible to connect solar PV or wind power to charge the unit. Our product brochure (available on request) explains the various functions in more detail.

Options and accessories

A number of optional features are available that include a road-tow kit, deployable solar PV array, solar charge regulator pack and GSM remote monitoring kit. Units can be customised for alternative paint colours, connection arrangements and other user specified features.

Battery specification

Battery type and specification are critical for reliable performance. GridtoGo™ is available with a choice of AGM or Gel sealed lead acid battery types both of which are maintenance free and designed for deep-cycle, traction style duty. The AGM battery is suitable for moderate to medium duty such as is typical in the events sector whilst the Gel type is ideal for heavy duty as experienced in construction. GridtoGo™ is also available with a Lithium Ion battery detailed in a separate data sheet. Please discuss your needs with a technical advisor to establish what will be the most appropriate specification for your requirements.

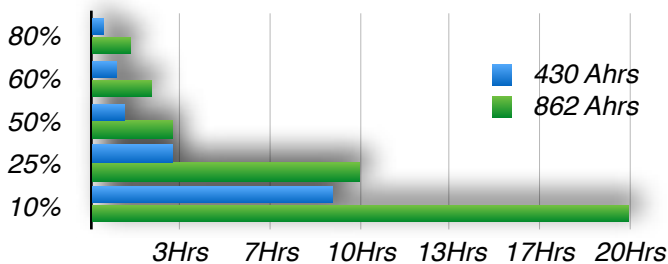
Single phase in and out

The single phase in and out configuration is our standard format and can be connected to a single phase supply of up to 100A (23kW). The 16kVA rating in stand alone mode can supplement the input for a maximum total output up to 39kVA.

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



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Specification

Output power (400/230V 50Hz 1Ø)	
Continuous (Inverter)	16kVA
with maximum input connected	39kVA
Inverter peak power	200%
Input	
Maximum input AC1	63A /14.5kVA
100A / 23 kVA achievable through hardwire, speak to our experts for advice	
Dimensions	
Length	1450mm
Height	1150mm
Width	850mm
Ingress protection rating	IP34 Suitable for outdoor use
Standard Finish	Epoxy Powder Coat RAL 9016
Noise Levels	Inaudible above background
Maximum heat rejection	1600kW

Instruments, controls & connections	
Input connection (AC1&AC2)	IEC 309 63A / 5x with earth hard wire 8mm stud
Output Connections AC1	4 x 32A IEC 309
Output Connections AC2	4 x hard wire 8mm stud
System status	✓
Battery condition	✓
Battery main isolator	✓
Input & Output MCB's	✓
Programmable gen auto-start signal	✓

Optional features	
4kW MPPT Solar PV charge controller	· PV
GSM remote monitor & control	· GSM
Solar Arrays linking to BSUs available on some models, speak to our experts for more information	
Harsh environment pack	· HE
Free air cooling pack	· RT

Battery Options

Dimensions				
Battery Type				Sealed Lead Acid Gel EPzV
Battery design life	700 cycles to 60%			2000 cycles to 60%
Battery Capacity (Ahrs @ C10)	415	830	527	862
Useable stored energy (to 80% DoD)	16kWhrs	33kWhrs	20kWhrs	33kWhrs
Autonomy @ 3kVA average load	4h	9h	5h	9.3h
Autonomy @ 7.5kVA average load	4h	4h	5h	4h
Autonomy @ 15kVA average load	1.5h	3h	1.3h	3h
Recharge to 80%/100% SoC	4h/7h	4h/7h	4h/7h	4h/7h
Weight (of complete GtG unit)	860kg	1330kg	1137 kg	1576 kg
Unit Part Number	GTG430A-16-*	GTG830A-16*	GTG527G-16-*	GTG862G-16-*

Specifications may change without prior notice. E&OE

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

