



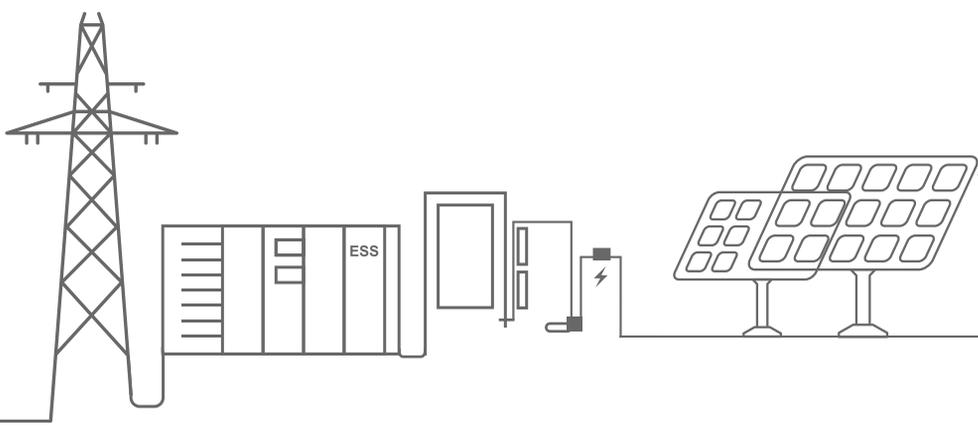
# Grace BESS

Powering Tomorrow

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Energy storage solutions for the world

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# Low Voltage Battery Energy Storage

BESS All in One Solutions

-  **PARALLEL**
-  **MODULAR**
-  **COMMUNICATION**
-  **OEM/ODM**



Model Name	GRE48V100AH	GRE51.2V100AH
Specification	48V100AH	51.2V100AH
Capacity (kWh)	4.8	5.12
Configuration	1P15S	1P16S
BMS Type	Smart	Smart
Communication	CAN/RS485/Bluetooth	CAN/RS485/Bluetooth
Maximum charging current (A)	50	50
Cycle Life (80% DOD, 25°C, 0.5C/0.5C)	6000	6000
Ingress Protection	IP20	IP20
Dimension (LXWXH) (Mm)	500X450X180	500X450X180
Weight (Kg)	50	52.5



# Low Voltage Battery Energy Storage

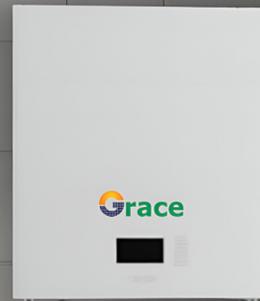
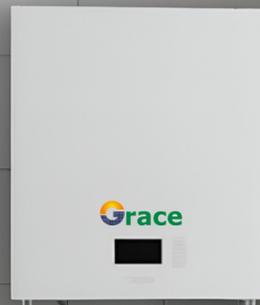
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BESS Rack & Wall Mount

MAX 15PCS PARALLEL

☰ MODULAR

📶 COMMUNICATION

🔧 OEM/ODM



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Weight (Kg)	50	52.5

# Lead Acid Replacement



Model Name	GRE12.8V100H	GRE25.6V100H
Specification	12.8V100AH	25.6V100AH
Capacity (kWh)	1.28	2.56
Configuration	1P4S	1P8S
BMS Type	Smart	Smart
Communication	CAN/RS485/Bluetooth	CAN/RS485/Bluetooth
Cycle Life (80% DOD, 25°C, 0.5C/0.5C)	6000	6000
Maximum charging current (A)	50	50
Ingress Protection	IP20	IP20
Dimension (LXWXH) (Mm)	120X180X185	250X230X180
Weight (Kg)	10.5	26.5

# Mobility ESS Solution

Electric Vehicle



	2 Wheeler	3 Wheeler	FORKLIFT
<b>Model</b>	GRE7242W2	GRE51100W3	GRE25400FL
<b>Specification</b>	73.6V42Ah	51.2V100Ah	25.6V400Ah
<b>Capacity (kWh)</b>	3.09	5.12	10.24
<b>Configuration</b>	7P23S	1P16S	4P8S
<b>Communication</b>	Default: RS485/RS232/CAN Optional: Wifi/4G/Bluetooth	Default: RS485/RS232/CAN Optional: Wifi/4G/Bluetooth	Default: RS485/RS232/CAN Optional: Wifi/4G/Bluetooth
<b>Cycle</b>	3000~6000 @ 80%/25 degree C/0.5C	3000~6000 @ 80%/25 degree C/0.5C	3000~6000 @ 80%/25 degree C/0.5C
<b>Max. Discharge Current (A)</b>	40	100	200
<b>Cooling method</b>	Natural cooling	Natural cooling	Natural cooling
<b>Ingress Protection</b>	Ip67	Ip67	Ip67
<b>Dimension (LXWXH)(mm)</b>	310 x 205 x 420	462 x 442 x 305	596 x 373 x 329
<b>Weight (Kg)</b>	21	54	90

# High Voltage Battery Energy Storage

C&I BESS

MAX  
15PCS

PARALLEL



COMMUNICATION



OEM/ODM



HIGH VOLTAGE  
MATCHING



Model Name	GRE-BESS-CI-241	GRE-BESS-CI-261
Specification	LFP (3.2V314Ah)	LFP (3.2V314Ah)
Configuration	1P48S/43kWh	1P52S/52.25kWh
Battery System Configuration	1P240S (5*1P48S)	1P260S (8*1P52S)
Rated Battery Voltage	768V	832V
Battery Voltage Range	672V-864V	728V-936V
Nominal Capacity (kWh)	241 kWh	261.2 kWh
Rated Power	100 kW	125 kW
Charge and Discharge Rate	≤0.5P	≤0.5P
Number of Cycles	8000	8000
Ingress Protection	Ip54	Ip54
Heat Management	Liquid cooling	Liquid cooling
Weight (Kg)	2500	2800
Dimension (LXWXH) (mm)	1400x1360x2200	1480x1350x2205
All in one Solutions - in built PCS	YES	YES

Grace  
BESS

www.gracebess.com

Scan for  
Detailed  
Datasheet



info@gracebess.com

# High Voltage Battery Energy Storage

Utility BESS

-  PARALLEL
-  EASY O&M
-  COMMUNICATION
-  OEM/ODM



Model Name	GRE-US-3MWH	GRE-US-5MWH	GRE-US-6.25MWH
Nominal Capacity (kWh)	3086 kWh	5015.96 kWh	6251.3 kWh
Cluster Configuration	1P384S*8	1P384S*13	1P416S*8
Rated Voltage	1228.8V	1228.8V	1331.2V
Rated Power	1600 kW	2500 kW	3125.6 kW
All in one Solutions - inbuilt PCS	Yes	No	No
Rated Charge/discharge Rate	0.5C	0.5C	0.5C
Cell Specification	3.2V/314Ah	3.2V/314Ah	3.2V/587Ah
Cycle Life	8000 cycles (70% SOH, 0.5C/0.5C, 25°C)		
Cooling Mode	Liquid Cooling		
Fire Extinguisher	FK-5112/Aerosol Fire Suppression System + Water Fire Fighting		
Noise	< 80dB		
Dimension (LXWXH)(mm)	2438x6058x2896		
Weight	31T	42T	49T
Ingress Protection	Ip55		
Communication Interface	CAN, Ethernet, Rs485		

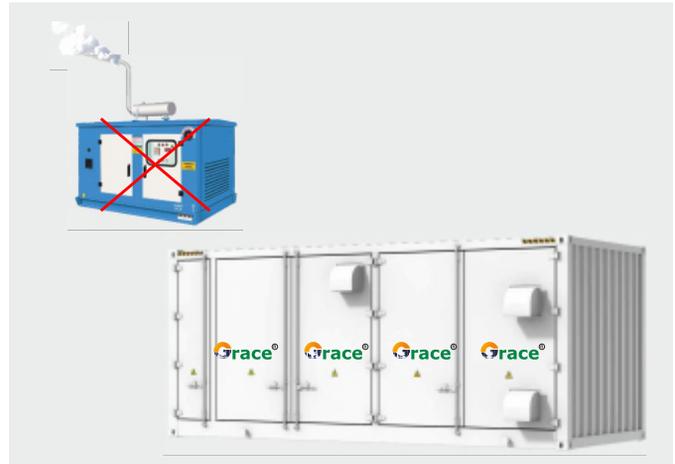
# Services

## Used Case Secenario

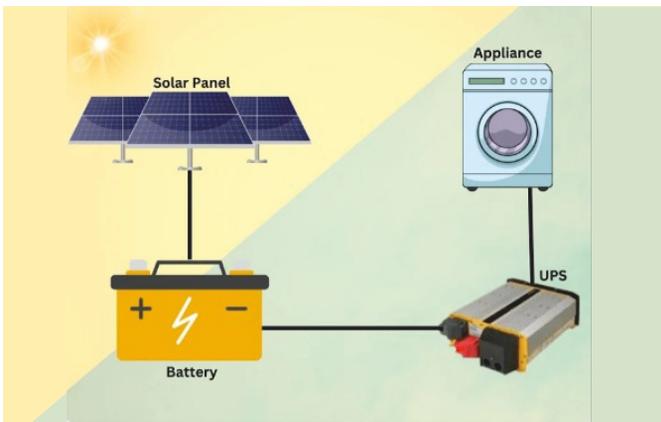
### 7a - Lead Acid Replacement BESS



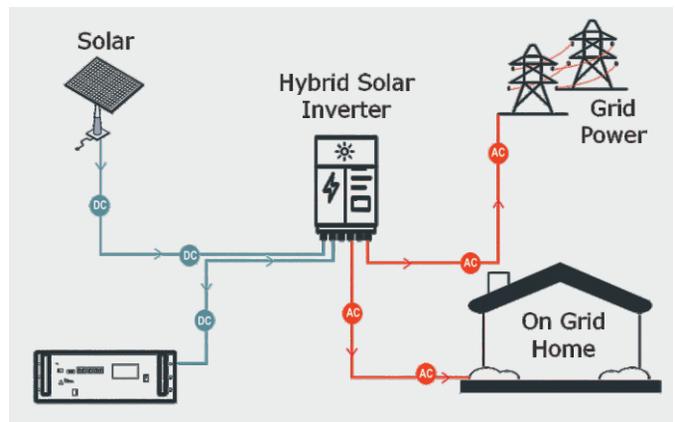
### 7b - DG Set Replacement BESS



### 7c - Backup for UPS (Uninterruptible Power Supply)



### 7d - Hybrid Solutions



### 7e - Telecom Batteries





Website

## Grace Renewable Energy Ltd.

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Images are subject to change without prior approval