



### Solution for Fast Install

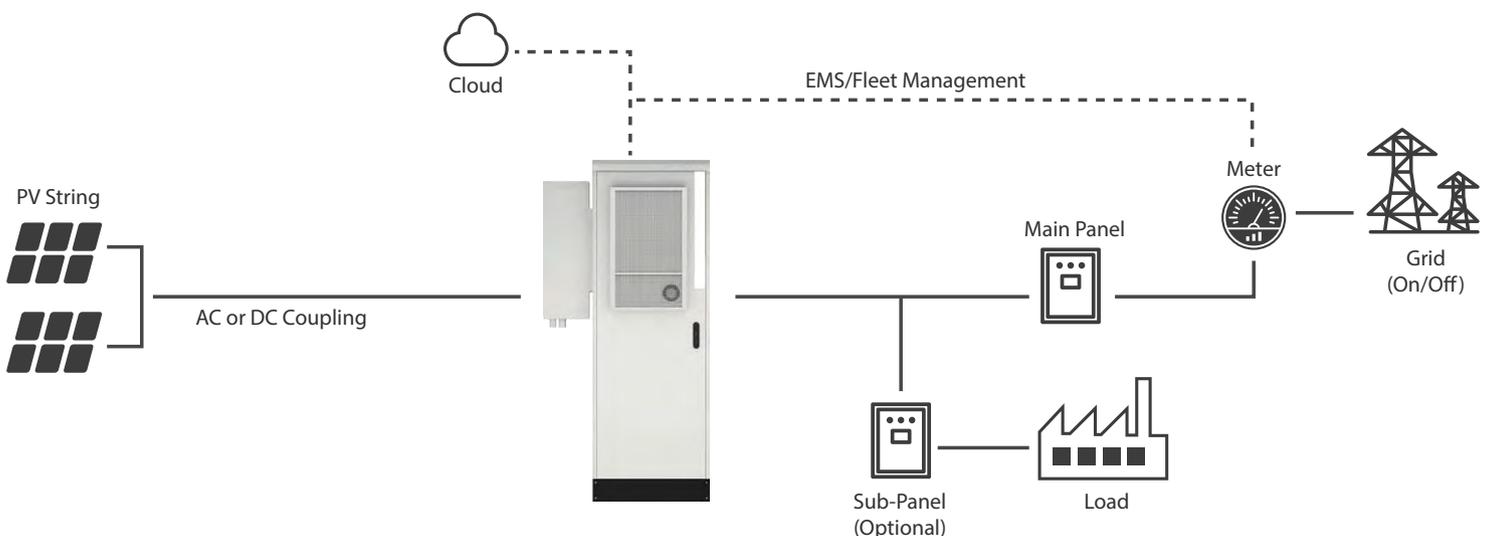
Fully integrated, pre-configured package system reduces on-site installation time includes inverter(s), battery trays, racks, BMS, Microgrid Controller, LV/AC, fire suppression, islanding switch, and outdoor rated enclosure.

### Easy & Flexible to Scale

The modular design allows for easy capacity expansion. The rack-mounted design allows for installation in various settings. A single system can be expanded up to 100kWh.

### Safe Technology & Multi-level Protection

Tier 1 LiFePO4 Phosphate chemistry for the highest level of safety, thermal stability, and reliability; An integrated, multi-level Battery Management System(BMS) monitors, optimizes, and balances the system.



Model	GES-BESS-15K60	GES-BESS-30K60	GES-BESS-15K100	GES-BESS-30K100
<b>System Specification</b>	<b>1xSolis = 15kW</b>		<b>2xSolis = 30kW</b>	
Nominal Output Power/UPS Power (W)	15000	30000	15000	30000
AC Output Frequency and Voltage	50/60Hz; 3L/N/PE 230/400Vac			
Grid Type	Three phase			
Energy Configuration (kWh)	61.44	61.44	102.40	102.40
Dimension (W x D x H,mm)	1100x750x2200 (no contain inverter)			
Weight Appr. (kg) (no contain inverter)	612.8	612.8	779.2	779.2
AC Output Rated Current (A)	22.8	2x 22.8	22.8	2x 22.8
Battery Operating Voltage (V)	40 ~ 60			
Battery Chemistry	LiFePO4			
IP Rating of Enclosure	IP55			
System Certification	UN38.3, IEC62619, CE, CEI 0-21, VDE-AR-N 4105, IEC 62109			
Installation Style	Floor-Mounted			
Warranty	10 years			
<b>Inverter Technical Specification</b>				
Max. PV Input Power (W)	24000	2x 24000	24000	2x 24000
Max. PV Input Current (A)	40+40			
Rated PV Input Voltage (Vdc)	1000			
Start Up DC Voltage (Vdc)	160			
MPPT Voltage Range (Vdc)	200-850			
Max. PV Short-circuit Current (A)	50+50			
Number of MPPT	2/4	2x 2/4	2/4	2x 2/4
Peak Power (off grid)	1.5 time of rated power, 10s			
Power Factor	0.8 leading to 0.8 lagging			
THD	<3%			
DC injection current (mA)	<0.5In			
Display	LCD			
Operating Temperature Range (°C)	-40~60( >45°C derating)			
Relative Humidity	15% ~ 85% (No Condensing)			
Dimension (W x H x D, mm)	527×894×294 (Excluding Connectors and Brackets)			
Inverter Communication	CAN, RS485, WIFI, ETH			
Safety EMC / Standard	IEC/EN 62109-1, IEC/EN 62109-2, IEC/EN, 61000-6-1, IEC/EN 61000-6-2, IEC/EN61000-6-3, IEC/EN 61000-6-4			
Grid Regulation	VDE4105, IEC61727/62116, VDE0126, AS4777.2, CEI 0 21, EN50549-1, G98, G99, C10-11, UNE217002, NBR16149/NBR16150			
Max. Efficiency	97.6%			
Max. charging/discharging efficiency	91%			
Max Parallel connection sets	10			
<b>Battery Technical Specification</b>				
Battery Module Nominal Voltage (V)	51.2	51.2	51.2	51.2
Battery Capacity (Ah)	200			
Battery Energy / Usable Energy (90% DOD)	61.44 / 55.30 kWh	61.44 / 55.30 kWh	102.40 / 92.16 kWh	102.40 / 92.16 kWh
BMS Communication	CAN			
BMS parallel support connection	3sets(Standard), 32 sets ( Extra BAU module)			
Max Charge & Discharge Current (A)	150	2x150	150	2x150
Operating Temperature Range	Charge: 0 ~ 55°C / Discharge: -20°C ~ 55°C			
Cycle Life	≥ 8500(@25°C±2°C,0.5C/0.5C,70%EOL)			
Short Circuit Protection	YES			
Over Current Protection	YES			
Over Charge Protection	YES			
Over Temperature Protection	YES			
Cell Over Voltage Protection	YES			
Cell Over Under Protection	YES			
Cell Discharge Protection	YES			