greenworks POWER

Three Phase Systems

Residential and Commercial

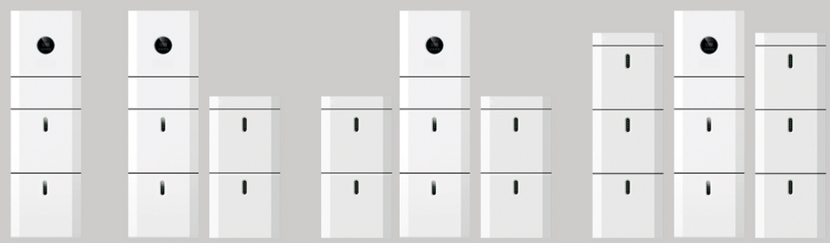
All-in-one Battery Energy Storage Solution (BESS)

BATTERY SYSTEM SIZE OPTIONS	10.24kWh to 163.84kWh
HYBRID INVERTER SIZE	10kW
MAXIMUM SYSTEM SIZE OPTIONS	10kW to 40kW (connected)
CYCLES	10,000
INDUSTRY LEADING WARRANTY	15-Year battery warranty 10-Year Inverter warrany

- Modular plug-and-play stacking battery storage system
- Flexible new solar, retrofit solar or battery only (with flexible rate tariff) projects
- 3-phase hybrid inverter can oversize PV system by 200%
- Flexible and expandable in 10.24 kWh increments from 10.24 kWh up to 163.84 kWh
- Safe, high performance LiFePO4 Lithium battery modules
- IP65 for outdoor or indoor installation
- Remote monitoring via mobile app

Part Number	Item Description
8200207	GW HES 5.12kWh Battery Pack
8200507	GW HES 10kW Three-phase Hybrid Inverter
8500407	Accessory Two Battery Pack with Three-phase
8500507	Accessory Four Battery Pack with Three-phase
8500607	Accessory Six Battery Pack with Three-phase
8500707	Accessory Eight Battery Pack with Three-phase
8500807	Top Cover
8500907	Floor Stand
8501107	AGWE-METER
8501207	AGWE-PARALLEL BOX

IF NECESSARY, PLEASE CONTACT US FOR HELP WITH YOUR SYSTEM REQUIREMENTS



MODULAR EXPANSION FEATURE CONNECTS UP TO FOUR INVERTERS/SYSTEMS TO ACCOMMODATE UP TO 80 kW OF SOLAR (20 kW PER 10 kW INVERTER)

Scan here to find out more

Contact Information:
0121 7768 807
info@greenworkspower.uk

Our website
greenworkspower.uk

Battery Model Technical Specification GWE-BAT-5.1L

Physical	
Battery Type	LFP (LiFePO4)
Weight	54KG
Dimensions (W x H x D)	540*490*240mm
IP Protection	IP65
Warranty	15-Year Warranty*

Electrical	
Energy Capacity	5.12kwh
Usable Capacity	4.6kwh
Depth of Discharge (DoD)	90%
Nominal Voltage	51.2V
DC Circuit Breaker	125A
Operating Voltage Range	44.8-56.5V
Internal Resistance	<20mΩ
Cycle Life	10,000 cycles

General Specifications	
Max. Charge/Discharge Current	50A/80A
Rated DC Power	4096W
Max. Charge/Discharge Power	2825W/4096W
Operating Temperature Range	0 to 50°C charging -10 to 50°C discharging
Humidity	0~95% (No condensation)
BMS	
Modules Connection	Max.8
Capacity	200/400/600/800Ah
Power Consumption	<2W
Communication	CAN & RS485
Monitoring Parameters	System voltage, current, cell voltage, cell temperature, PCBA temperature measurement
Certification & Standard	
Safety (Cell)	Pack: IEC/EN 62619; UN38.3 Cell: IEC/EN 62619; UN38.3; UL1973"

Hybrid Inverter Model Technical Specification GWE-THYB-10KL

PV String Input	
Max. Continuous PV Input Power	20kW
Max. DC Voltage	1100V
Nominal Voltage	720V
MPPT Voltage Range	140V-1000V
MPPT Voltage Range (Full Load)	420V-850V
Start Voltage	200V
Number of MPPT	2
Strings Per MPPT	1
Max. Input Current Per MPPT	15A
Max. Short-circuit Current Per MPPT	20A
AC Output (Grid)	
Nominal AC Output Power	10kW
Max. AC Apparent Power	11kVA
Nominal AC Voltage	400Vac
AC Grid Frequency Range	50 / 60Hz±5Hz
Nominal Output Current	14.5A
Max. Output Current	16A
Power Factor (cosΦ)	0.8leading-0.8lagging *
THDi	<3%
Battery Input	
Battery Type	LFP (LiFePO4)
Nominal Battery Voltage	51.2V
Charging Voltage Range	44-58V
Max. Charging Current	160A
Max. Discharging Current	200A
Battery Capacity	200/400/600/800Ah
AC Output (Backup)	
Nominal AC Output Power	9.2kW
Max. AC Output Power	10kVA
Nominal Output Current	13.3A
Max. Output Current	14.5A
Nominal Output Voltage	400V
Nominal Output Frequency	50/60Hz
Output THDv (@Linear Load)	<2% (Linear Load)
Efficiency	
Max. PV Efficiency	97.60%
Euro. PV Efficiency	97.00%
Protection	
Anti-islanding Protection	Yes
Output Over Current Protection	Yes
DC Reverse Polarity Protection	Yes
String Fault Detection	Yes
AC/DC Surge Protection	DC Type II; AC Type III
Insulation Detection	Yes

*Please refer to our main warranty documentation