greenworks POWER

Single Phase Kits

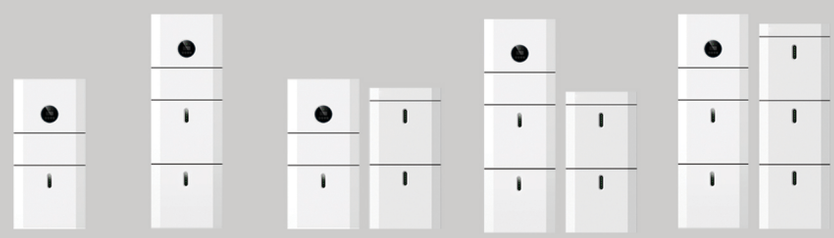
GreenE Residential BESS

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

BATTERY SYSTEM SIZE OPTIONS	5.12 kWh to 25.6 kWh
HYBRID INVERTER SIZE OPTIONS	3.68 kW or 5kW
CYCLES	10,000
INDUSTRY LEADING WARRANTY	15-Year battery warranty 10-Year Invertor warrany

- Modular plug-and-play stacking battery storage system
- Flexible new solar, retrofit solar or battery only (with flexible rate tariff) projects
- Safe, high performance LiFePO4 Lithium battery modules
- IP65 for outdoor or indoor installation
- Remote monitoring via mobile app
- Kits include adjustable floor stand and all accessories
- Optional critical/maintained circuit protection facility

KIT PART NUMBER	INVERTER	BESS SIZE
GWPG98KIT1	3.68kW	5.12kWh
GWPG98KIT2	3.68kW	10.24kWh
GWPG98KIT3	3.68kW	15.36kWh
GWPG98KIT4	3.68kW	20.48kWh
GWPG98KIT5	3.68kW	25.60kWh
GWPG99KIT1	5kW	5.12kWh
GWPG99KIT2	5kW	10.24kWh
GWPG99KIT3	5kW	15.36kWh
GWPG99KIT4	5kW	20.48kWh
GWPG99KIT5	5kW	25.60kWh



GWPG98KIT1 GWPG99KIT1 | GWPG98KIT2 GWPG99KIT2 | GWPG98KIT3 GWPG99KIT3 | GWPG98KIT4 GWPG99KIT4 | GWPG98KIT5 GWPG99KIT5

Scan here to find out more

Contact Information:
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Our website
greenworkspower.uk

Battery Model Technical Specification GWE-BAT-5.1L

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

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

General Specifications	
Max. Charge/Discharge Current	50A / 80A
Rated DC Power	4096 W
Max. Charge/Discharge Power	2825 W / 4096 W
Operating Temperature Range	-10 to 50°C (Charging/Discharging)
Humidity	0% to 95% (No condensation)
BMS	
Modules Connection	Max. 5
Capacity	100 - 400 Ah
Power Consumption	< 2 W
Communication	CAN & RS485
Monitoring Parameters	System voltage, current, cell voltage, cell temperature, PCBA temperature
Certification & Standard	
Safety (Cell)	"Pack: IEC/EN 62619; UN38.3 Cell: IEC/EN 62619; UN38.3; UL1973"

Hybrid Inverter Model Technical Specification

General Specifications	
Dimensions W x H x D	540 * 590 * 240 mm
Weight	32 kg
Operating Temperature Range	-25°C ~ +60°C
Noise (dB)	< 25
Cooling Type	Natural Convection
Max. Operation Altitude	2000 m
Operation Humidity	0 ~ 95% (No Condensation)
IP Class	IP65
Warranty	10-Year Warranty*
Topology	Battery Isolation
Communication	RS485 / CAN2.0 / WiFi / 4G
Display	LCD / APP
Certification & Standard	IEC/EN 62109-1&2; IEC/EN61000-6-1; IEC/EN61000-6-2; EN61000-6-3; IEC/EN61000-6-4; IEC/EN61000-3-11; EN61000-3-12; IEC60529; IEC 60068; IEC61683; IEC62116; IEC61727; EN50549-1; AS 4777.2; NRS 097; VDE-AR-N-4105; CEI0-21; G98; G99; CEI0/C11

PV String Input	GWE-SHYB-3680DL	GWE-SHYB-5000DL
Max. DC Voltage	580V	580V
Nominal Voltage	400V	400V
MPPT Voltage Range	80V - 560V	80V - 560V
Start Voltage	150V	150V
Number of MPPT Trackers	2	2
Strings Per MPPT Tracker	1	1
Max. Input Current Per MPPT	15A	15A
Max. Short-Circuit Current Per MPPT	18A	18A
AC Output (Grid)		
Nominal AC Output Power	3680W	5000W
Max. AC Apparent Power	7360VA (from grid)	7360VA (from grid)
Max. AC Output Power	3680W	5000W
Nominal AC Voltage	230Vac	230Vac
AC Grid Frequency Range	50 / 60Hz ± 5Hz	50 / 60Hz ± 5Hz
Max. Output Current	16A	22A
Max. Input Current	32A	32A
Power Factor (cos)	0.8 leading - 0.8 lagging	0.8 leading - 0.8 lagging
THDi	<3%	<3%
Battery Input		
Battery Type	LFP (LiFePO4)	LFP (LiFePO4)
Nominal Battery Voltage	48V	48V
Charging Voltage Range	40 - 60V	40 - 60V
Max. Charging Current	100A	100A
Max. Discharging Current	100A	100A
Battery Capacity	100 - 400Ah	100 - 400Ah
Charging Strategy for Li-ion BatteryAC Output (Backup)	Depend on the BMS	Depend on the BMS
Peak Output Apparent Power		
Max. Output Current	4000VA	5000VA
Nominal Output Voltage	6900VA 10sec	6900VA 10sec
Nominal Output Frequency	16A	20A
Max. Output Apparent Power	230V	230V
Output THDv (@Linear Load)	50/60Hz	50/60Hz
Efficiency	<3% (Linear Load)	<3% (Linear Load)
Euro. PV Efficiency	97.6%	97.6%
Max. PV Efficiency	97.0%	97.0%
Protection		
DC Switch	Bipolar DC Switch (125A/Pole)	Bipolar DC Switch (125A/Pole)
Anti-islanding Protection	Yes	Yes
Output Over Current	Yes	Yes
DC Reverse Polarity Protection	Yes	Yes
String Fault Detection	Yes	Yes
AC/DC Surge Protection	DC Type II; AC Type III	DC Type II; AC Type III
Insulation Detection	Yes	Yes
AC Short Circuit Protection	Yes	Yes

*Please refer to our main warranty documentation