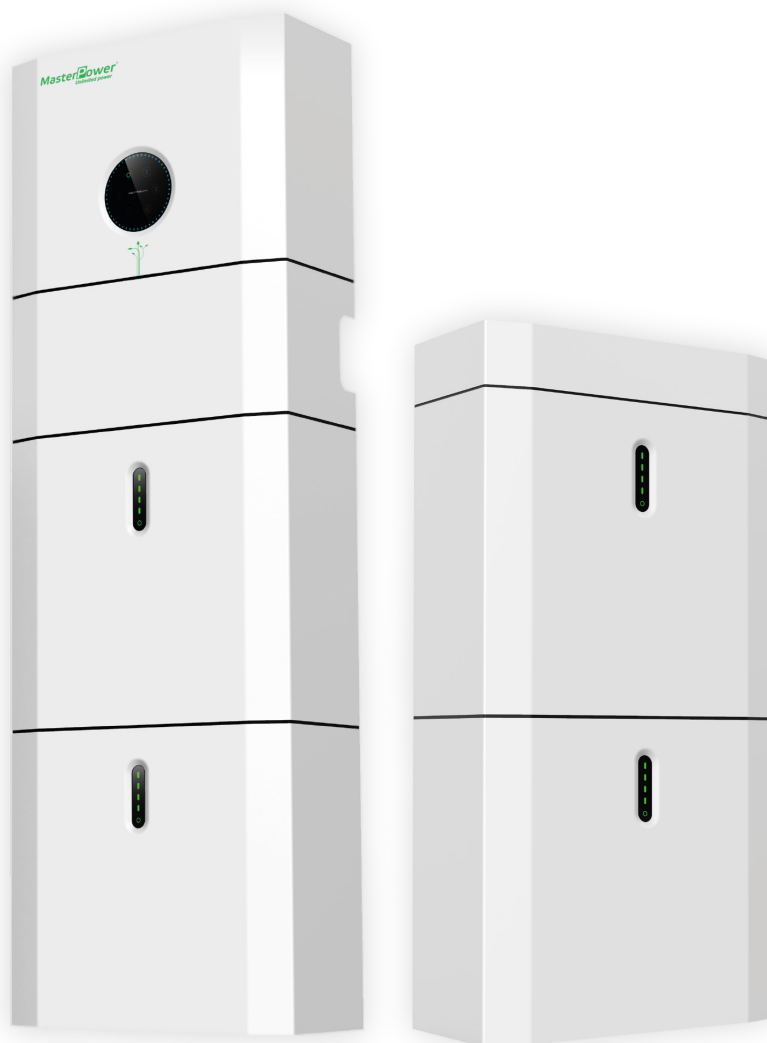


## GreenE Series

### Residential ESS (3.68-5)K

ALL IN ONE SYSTEM



#### Battery solution

##### SAFETY

- LFP Battery, stable and safe.
- Module, pack, system, triple protection.
- IP65, outdoor installation.

##### SIMPLE

- Modular design, single person can carry and install it.
- Plug and play, 30 min quick installation
- Space saving: 0.15 sq. m foot print.

##### INTERCONNECTION

- Global cloud platform & Mobile APP, anytime and any where.
- Open API, support power internet applications.

### Battery Model

GreenE PACK5.1

PHYSICAL	
Battery type	LFP (LiFePO <sub>4</sub> )
System Weight	54 kg
Dimension (W*H*D)	540*490*240 mm
IP Protection	IP65
Warranty	5 Year Product Warranty, 10 Year Performance 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	10000 cycle
OPERATION	
Maximum Charge / Discharge Current	50 A / 80 A
Rated DC power	4096 W
Maximum Charge / Discharge Power	2825 W / 4096 W
Operating Temperature Range	0 to 50°C charging; -10 to 50°C discharging
Humidity	0 ~ 95% (No condensation)
BMS	
Modules Connection	Maximum 5
Capacity	100 - 400 Ah
Power Consumption	< 2 W
Communication	CAN & RS485
Monitoring Parameters	System voltage, current, cell voltage, cell temperature, PCBA temperature measurement
CERTIFICATES	
Safety (Cell)	Pack: IEC / EN 62619; UN38.3 Cell: IEC / EN 62619; UN38.3; UL1973
Safety Certification	IEC 62040-1: 2017; IEC 62619: 2017; IEC 63056: 2020; UN38.3

\*Maximum 5 battery pack in parallel.

### Hybrid Inverter Model

GreenE 3680

GreenE 5000

PV STRING INPUT	
Maximum Continuous PV Input Power	4.78 kW
Maximum DC Voltage	580 V
Nominal Voltage	400 V
MPPT Voltage Range	80 V - 560 V
Start Voltage	130 V
Number of MPP Tracker	2
Strings per MPP Tracker	1
Maximum Input Current per MPPT	15 A
Maximum Short-circuit Current per MPPT	18 A
AC OUTPUT (GRID)	
Nominal AC Output Power	3680 W
Maximum AC Apparent Power	7360 VA (from grid)
Maximum AC Output Power	3680 W
Nominal AC Voltage	230 Vac
AC Grid Frequency Range	50 / 60 Hz ± 5 Hz
Maximum Output Current	16 A
Maximum Input Current	32 A
Power Factor (cosΦ)	0.8 leading - 0.8 lagging
THDi	< 3%

Hybrid Inverter Model	GreenE 3680	GreenE 5000
<b>BATTERY INPUT</b>		
Battery Type	LFP (LiFePO <sub>4</sub> )	
Nominal Battery Voltage	48 V	
Maximum Charging Voltage Range	40-60 V	
Maximum Charging Current	50 A	100 A
Maximum Discharging Current	80 A	100 A
Battery Capacity	100 - 400 Ah	
Charging Strategy for Li-Ion Battery	Depend on the BMS	
<b>AC OUTPUT (BACKUP)</b>		
Maximum Output Apparent Power	4000 VA	5000 VA
Peak Output Apparent Power	6900 VA 10 s	
Maximum Output Current	16 A	20 A
Nominal Output Voltage	230 V ± 0.2%	
Nominal Output Frequency	50 / 60 Hz ± 0.2%	
Output THDv (@Linear Load)	< 3% (Linear Load)	
<b>EFFICIENCY</b>		
Maximum PV Efficiency	97.6%	
European PV Efficiency	97.0%	
<b>PROTECTION</b>		
DC Switch	Bipolar DC Switch (125 A / Pole)	
Anti-islanding Protection	Yes	
Output Over Current	Yes	
DC Reverse Polarity Protection	Yes	
String Fault Detection	Yes	
AC / DC Surge Protection	DC Type II; AC Type III	
Insulation Detection	Yes	
AC Short Circuit Protection	Yes	
<b>GENERAL SPECIFICATIONS</b>		
Dimensions (W*H*D)	540*590*240 mm	
Weight	32 kg	
Operating Temperature Range	-25°C ~ 60°C	
Noise (dB)	< 25	
Cooling Type	Natural Convection	
Maximum Operation Altitude	2000 m	
Maximum Operation Humidity	0 ~ 95% (No Condensation)	
IP Class	IP65	
Topology	Battery Isolation	
Communication	RS485 / CAN2.0 / WIFI / 4G	
Display	LCD / APP	
<b>CERTIFICATES</b>		
Safety Certification	IEC 62109-1: 2010; EN 62109-1: 2010; IEC 62109-2: 2011; EN 62109-2: 2011	
Environment Certification	IEC 60068-2-1: 2007; IEC 60068-2-2: 2007; IEC 60068-2-14: 2009; IEC 60068-2-30: 2005	
Efficiency Certification	IEC 61683: 1999	
Spanish On Grid Certification	UNE217001; UNE217002; UNE206007; NTS V2.1 Type A	
EMC (Latest Version)	EN / IEC 61000-6-1: 2019; EN / IEC 61000-6-3: 2021; EN / IEC 61000-6-2: 2019; EN / IEC 61000-6-4: 2019; EN / IEC 61000-3-11: 2019; EN 61000-3-12: 2011	
Other Certification	IEC60529; IEC62116; IEC61727; EN50549-1; AS 4777.2; NRS 097; VDE-AR-N-4105; CEIO-21; G98; G99; C10 / C11	

Product specifications are subject to change without further notice.