

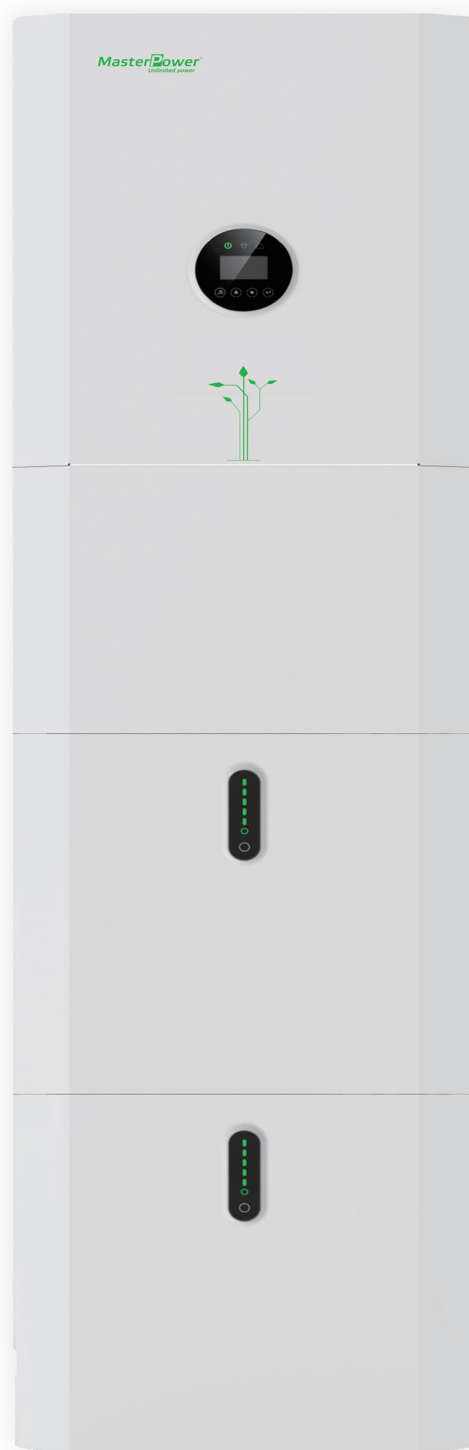
GreenE Series

Residential ESS 10K

ALL IN ONE SYSTEM

Features

- All-in-one.
- LFP battery, stable and safe.
- Modular design, plug and play.
- Quick installation: 30 min.
- Life of more than 10000 cycles.
- 10 years performance warranty.
- Cloud platform and mobile APP.
- Parallelizable.
- Built-in BMS.
- On&Off Grid system.



Technical Specifications

PV STRING INPUT	
Maximum Continuous PV Input Power	20 kW
Maximum DC Voltage	1100 V
Nominal Voltage	720 V
MPPT Voltage Range	140 V - 1000 V
MPPT Range (Full Load)	420 V - 850 V
Start Voltage	200 V
MPPT Tracker / Strings	2 / 2
Maximum Input Current per MPPT	15 A
Maximum Short-circuit Current per MPPT	20 A
AC OUTPUT (GRID)	
Nominal AC Output Power	10 kW
Maximum AC Apparent Power	11 kVA
Nominal AC Voltage	400 Vac 3 W + N + PE
AC Grid Frequency Range	50 / 60 Hz
Maximum Output Current	14.5 A
Maximum Input Current	16 A
Power Factor (cosΦ)	0.8 leading - 0.8 lagging
BATTERY INPUT	
Battery Type	LFP (LiFePO ₄)
Nominal Battery Voltage	48 V
Charging Voltage Range	40 - 60 V
Maximum Charging Current	200 A
Maximum Discharging Current	200 A
AC OUTPUT (BACKUP)	
Maximum Output Apparent Power	10 kVA
Rated Output Power	9.2 kW
Rated / Maximum Output Current	14.5 A / 16 A
Nominal Output Voltage	400 V
Nominal Output Frequency	0 / 60 Hz (±2%)
Output THDv (@Linear Load)	< 3% (Linear Load)
PROTECTION	
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
GENERAL SPECIFICATIONS	
Dimensions (W*H*D)	540*980*240 mm
Weight	42 kg
Operating Temperature Range	-25°C ~ 60°C (Derating > 45°C)
Noise (dB)	< 25
Cooling Type	Natural Convection
Maximum Operation Altitude	3000 m (Derating > 2000 m)
Operation Humidity	0 ~ 95% (No Condensation)
IP Class	IP65
Topology	Battery Isolation
Communication	RS485 / CAN2.0 / WIFI / 4G
Display	LCD / APP

CERTIFICATES	
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; CEI0-21; G98; G99; C10 / C11

Battery Model		GreenE PACK5.1
PHYSICAL		
Battery type		LFP (LiFePO ₄)
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 8
Capacity		200 - 800 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 8 battery pack in parallel. Must be purchased in pairs for proper balancing.

Product specifications are subject to change without further notice.