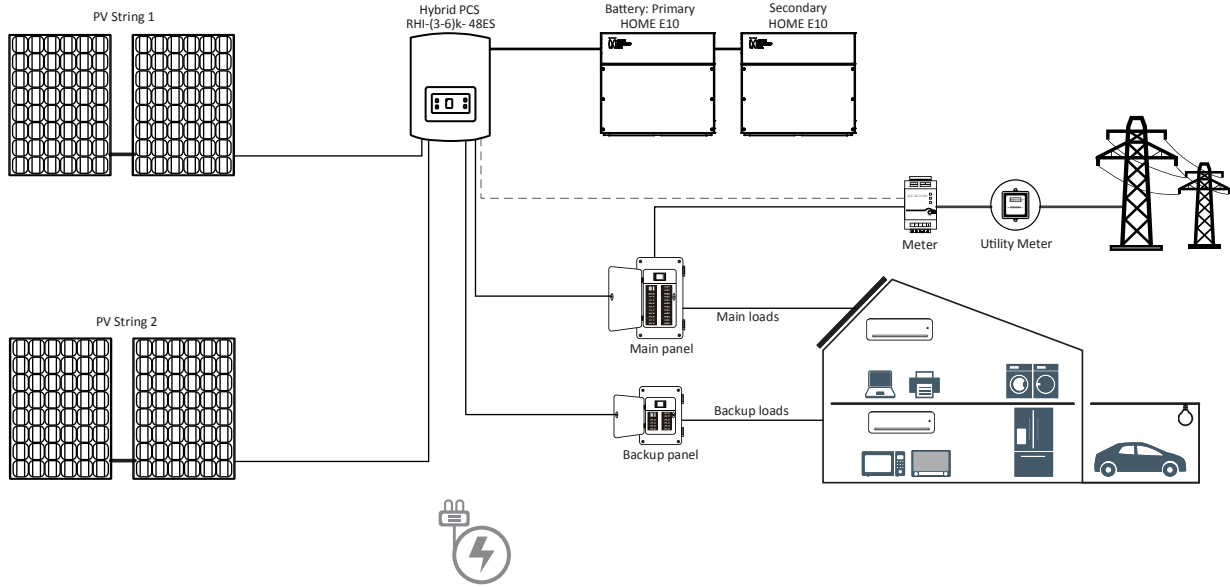


Home Energy Storage System



Maximize Solar Generation:

The System automatically maximizes the capture and use of your own solar generation. Solar power generated during the day is then available for use in an evening.



On Grid and Off Grid Applications:

The Integrated Home Energy Storage System can be configured to operate in On-Grid and also Off-Grid scenario.

Backup Power During Outages:

In the event of a power outage the Home Energy Storage System maintains power to critical loads without interruption.



Reduce Your Electric Bills:

The Time of Use Arbitrage controls also aim to limit power drawn from the Grid to off peak pricing periods.



Sophisticated Controls and User Interface:

The Systems sophisticated software controls automatically optimize power management issues 24/7 and provide homeowners with real time control and feedback.

Specifications

● ENERGY BANK

TECHNICAL SPECIFICATIONS

Energy	10kWh
Voltage Range	40-58.2V
Max Current Continuous	100A (200A optional)
DC Efficiency	99%
Power Continuous	5kW
Operating Temperature	-20°C~55°C, -4°F~131°F
Storage Temperature	20°C~45°C, 68°F~113°F
Environment	Outdoor
Ingress Rating	NEMA 3R
	IP56 (System)
Scalability	Up to 60kWh
Dimensions	W 794, H 718, D 273 mm W 31.26, H 28.27, D 10.75 in
Weight	120kg, 264lb
Cycle Life	> 6000 (90% DOD)

CERTIFICATION

UL1973, UN38.3

● POWER CONTROL MODULE

AC OUTPUT

Max. AC output power	6kW
Max. output current	26.1A
AC output voltage	1/N/PE, 220V/230V at 50/60Hz
Harmonics Distortion	THDI≤2%
Power factor	0.8leading..0.8lagging

AC OUTPUT (OFF-GRID)

Max. AC output power	5kW
AC Output voltage	1/N/PE, 220V/230V at 50/60Hz
Backup switch time	<20ms

PV INPUT

Max. PV power	8kW
Start voltage	120V
MPP voltage range	90~520V
No. of MPP trackers	2

BATTERY INPUT

Voltage range	42~58V
Max. DC current	100A
Max. power	5kW

MECHANICAL

Ingress Rating	IP65
Dimensions	W 333 H 505 D 249mm W 13 H 20 D 10in
Weight	17kg, 38lb

CERTIFICATION

Grid connection standard
EN50438, G98, G99, AS4777.2:2015, VDE0126-1-1, IEC 61727, VDE N4105, CEI 0-21, CE
Safety/EMC standard
IEC62040-1, IEC62109-1/-2, AS3100, NB/T 32004, EN61000-6-2, EN61000-6-3



HOME E10

By Green Solutions Inc.
HOME E10™

Home energy storage features the safest lithium ion battery technology, and the most scalable design.

ADVANTAGES

Green Solutions Inc. energy storage systems incorporate advance materials science and electronics innovations to provide world-class battery performance and safety:

- A proprietary semi-gel electrolyte with nanoparticle coated separator and graphene conductive additive that improve thermal stability, ionic transfer paths and mitigates dendrite growth – which lead to higher cell performance and cycle-life.
- Patented iBattery™ BMS technology, provides microsecond level single cell switching with real-time dynamic adjustments and monitors the temperature and internal resistance of each series of cells in real time.

FEATURES

Easy Installation

The battery module is designed for wall or floor mounting and for easy two-person installation.

Scalable

At most six battery modules can be stacked to provide a capacity expansion up to 60 kWh.

ENERGY

Energy	10kWh
Voltage	51.2V
Scalability	Up to 60kWh

POWER

Power Continuous	5kW
Power Peak (5s)	5.5kW
Voltage Range	40- 58.2V
Max Current Continuous	100A (200A optional)
DC Efficiency	99%

CERTIFICATE

Cycle Life	> 6000 (90% DOD)
Warranty	10 Years, extendable to 15 Years
Certification	UL1973, UN38.3

ENVIRONMENT

Operating Temperature	-20°C~ 55°C, -4°F~131°F
Storage Temperature	20°C~45°C, 68°F~113°F
Environment	Outdoor
Enclosure Type	NEMA 3R
Ingress Rating	IP56 (System)

MECHANICAL

Dimensions	W 794, H 718, D 273 mm W 31, H 28, D 11 in
Weight	120kg, 264lb

REMOTE ACCESS

User Interface	PC or Mobile
Connectivity	WIFI, Cellular
Wired Communication	Modbus, CAN