



GREEN SOLUTIONS INC.

TO MAKE CLEAN ENERGY UNIVERSALLY ACCESSIBLE



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Founded in 2016, we are a battery product company focusing on energy storage technology development, product design, manufacturing and product sales.

GREEN SOLUTIONS specializes in battery electronics and storage solution development. We provide turn-key clean energy solutions to our customers.

MISSION

To make clean energy universally accessible.

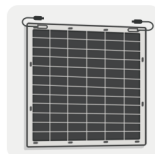
PRODUCTS



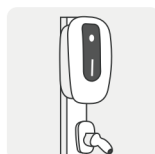
Low Voltage Batteries
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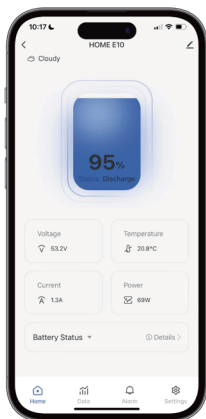


EV Chargers
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INTRODUCTION

Transform your smartphone into a complete energy management system with the Smart Life , allowing you to effortlessly control and manage your home energy network. You can easily monitor and adjust energy usage, track costs and optimize your home's energy efficiency.

SMART LIFE APP



Low Voltage Batteries

5/10 kWh high power 1C batteries



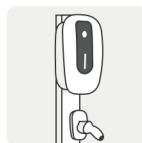
High Voltage Batteries

6-18 kWh stackable batteries



Balcony Solar System

Solar panel and micro-inverter for easy solutions of balcony



EV Chargers

Dynamic load balancing to safely balance EV charging and home loads

LOW VOLTAGE LI-ION HOME BATTERY

5/10 kWh High Power 1C Battery



The First Home Energy Storage Battery with Fire Extinguisher Integrated



-20°C Cold Climate Outdoor & Indoor Installation



Auto-active Heating for Cold Climate Usage



Radiation Cooling for Hot Climate Usage



High Performance Battery Cells from CATL (World's No. 1 Battery Supplier)



LFP - Proven Safe Battery Chemistry

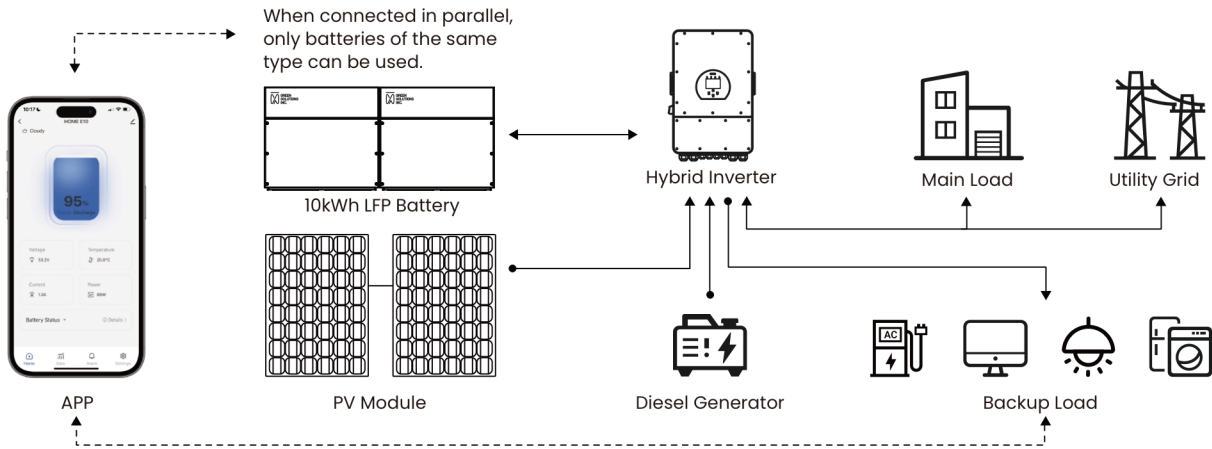


Electric Vehicle Grade Battery Module Design



Stackable up-to 4 Batteries





ELECTRICAL

	MODEL: E5	MODEL: E10
Nominal/Usable Energy	5.1 / 4.8 kWh	10.2 / 9.7 kWh
Max. Power	5 kW	10 kW
Max. Current	100 A	200 A
Voltage Range	40 ~ 57.6 V	40 ~ 57.6 V
DC Efficiency	95.4%	95.4%

GENERAL

	MODEL: E5	MODEL: E10
Battery Type	LFP	LFP
Protection	Auto-Fire Extinguishing	Auto-Fire Extinguishing
Energy Expansion	Up to 20 kWh (4x E5)	Up to 40 kWh (4x E10)
Communication	CAN, RS485, WiFi	CAN, RS485, WiFi

MECHANICAL

	MODEL: E5	MODEL: E10
Dimension (L*W*H)	240*726*496mm	240*726*716 mm
Weight	65 kg	120 kg
Ingress Rating	IP65	IP65

OPERATION

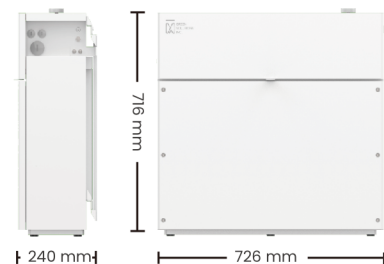
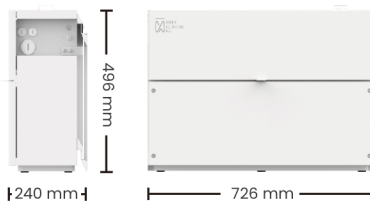
	MODEL: E5	MODEL: E10
Temperature Range	-20°C ~ 55°C	-20°C ~ 55°C
Heating	Smart Module Heating	Smart Module Heating
Cooling	Radiation Cooling	Radiation Cooling
Thermal Insulation	Thermal Shield (Optional)	Thermal Shield (Optional)
Humidity Range	5 ~ 90%	5 ~ 90%

CERTIFICATION

	MODEL: E5	MODEL: E10
Safety	CE, UKCA, IEC62619, UL1973	CE, UKCA, IEC62619, UL1973
Transportation	UN38.3	UN38.3

WARRANTY

10 years



HIGH VOLTAGE LI-ION HOME BATTERY

Easy Installation

Easy Snap-On installation, one person installation (battery module <32 kg). Ultra-thin profile (179 mm).

Flexible Capacity from 3 – 24 kWh

Stack on modules, allowing easy expansion on storage capacity.



The First Home Energy Storage Battery with Fire Extinguisher Integrated



LFP – Proven Safe Battery Chemistry



-20°C Cold Climate Outdoor & Indoor Installation



Electric Vehicle Grade Battery Module Design



Auto-active Heating for Cold Climate Usage



Radiation Cooling for Hot Climate Usage

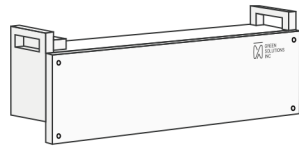


MODULE

GENERAL	E3	ELECTRICAL	
Battery Type	LFP	Nominal/Usable Energy	3.1/2.9 kWh
Number of Modules	1	Nominal Dc Voltage	102.4 V
Dimension (DxWxH)	179*750*210 mm	Max.Power	3.1 kw
Weight	30.7 kg	Max. Current	30A
Ingress Rating	IP66	Voltage Range	80 ~ 115.2 V

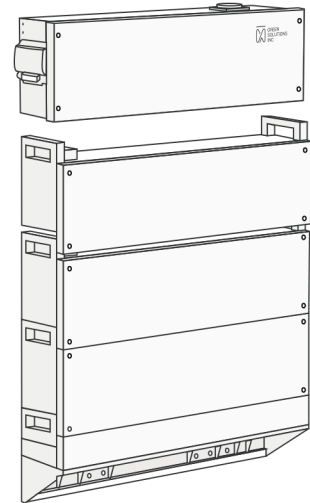
Single battery pack

179*750*210 mm



Assembled battery

179*750*210 mm*N



STACK

GENERAL	EH6	EH9	EH12	EH15	EH18
Battery Type	LFP				
Number of Modules	2	3	4	5	6
Dimension (D*W*H)	179*750*670 mm	179*750*880 mm	179*750*1090 mm	179*750*1300 mm	179*750*1510 mm
Weight	76.4 kg	107.2 kg	137.9 kg	168.6 kg	199.3 kg
Ingress Rating	IP66				

ELECTRICAL

Nominal/Usable Energy	6.1/5.8 kWh	9.2/8.8 kWh	12.3/11.7 kWh	15.4/14.6 kWh	18.4/17.5 kWh
Nominal DC Voltage	204.8 V	307.2 V	409.6 V	512.0 V	614.4 V
Max. Power	6.1 kW	9.2 kW	11.7 kW	15.4 kW	18.4 kWh
Max. Current	25 A				
Voltage Range	160.0 ~ 230.4 V	240.0 ~ 345.6 V	320.0 ~ 490.6 V	400.0 ~ 576.0 V	480.0 ~ 691.2 V
DC Efficiency	95.4%				

OPERATION

Temperature Range	-20 °C ~ 55 °C
Humidity Range	5 ~ 90%

OTHER

Energy Expansion	Stackable Up to 6 Modules
Communication	CAN and RS485

CERTIFICATION

Safety	IEC62619, UL1973
Transportation	UN38.3

Balcony Solar System

Reduces consumption of paid electricity and reduces electricity bills.

The Balcony Solar System is a simple plug-and-play solution, a simple and compact photovoltaic system. The scope of delivery includes solar modules and micro-inverter which can be mounted on balcony, roof or floor and feed power into its own home by plugging into a standard Schuko socket AC7-7 connection cord network. This reduces consumption of paid electricity and reduces electricity bills.



ALL-IN-1



ULTRA-LIGHT



PLUG AND PLAY



EASY TO INSTALL



WATERPROOF RATING



EXTREMELY WEATHER
RESISTANT

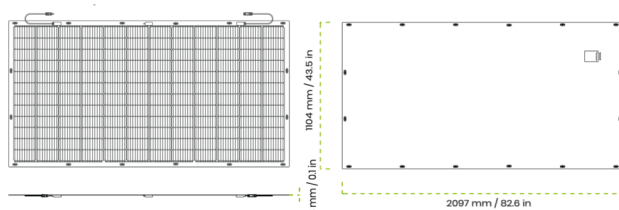


ELECTRICAL CHARACTERISTICS AT STANDARD TEST CONDITIONS(STC)

Max-Power(Pm)	425W
Power Tolerance	±5%
Max-Power Voltage(Vm)	41.4V
Max-Power Current(Im)	10.3A
Open-Circuit Voltage(Voc)	49.2V
Short-Circuit Current(Isc)	10.76A
Module Efficiency	19.30%

ELECTRICAL CHARACTERISTICS AT STANDARD TEST CONDITIONS(STC)

Max-Power(Pm)	210W
Power Tolerance	±5%
Max-Power Voltage(Vm)	41.4V
Max-Power Current(Im)	5.07A
Open-Circuit Voltage(Voc)	49.2V
Short-Circuit Current(Isc)	5.36A
Module Efficiency	19.30%

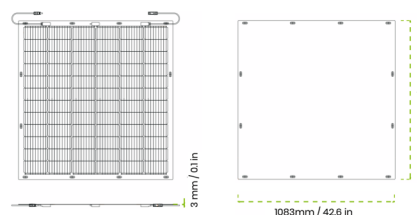


MECHANICAL CHARACTERISTICS

Dimension(L*W*D)	2097*1104*3mm
Weight	7.5Kg
Frame	Frameless
Backsheet Color	White
Junction Box	IP67
Cable	Customized/4mm ²
Connector	MC4 Compatible

MECHANICAL CHARACTERISTICS

Dimension(L*W*D)	1083*1104*3mm
Weight	3.8Kg
Frame	Frameless
Backsheet Color	White
Junction Box	IP67
Cable	Customized/4mm ²
Connector	MC4 Compatible



MICRO INVERTER-400W/800W

Size (L x W x H)	
400W	165*176*38mm
800W	283*200*41.6mm
Weight	
400W	0.82Kg
800W	1.56Kg
Certificate	EN IEC61000-3-2: 2019+A1: 2021 EN 61000-3-3:2013+A1: 2019+A2: 2021, EN IEC55014-2: 2021, EN IEC 55014-2: 202
warranty	5 years

ACCESSORIES



Micro inverter



Cable Tie x 12



3m AC7-7 adapter cable



3m MC4 to MC4

EV CHARGERS

7/11/22 kW Single or Three Phase AC EV Charger

Dynamic Load Balancing

Safely balance the electricity usage between the EV charger and other home appliances to prevent overload.

Easy Installation with Different Color Selection

Wall-mount or pole-mount are available for selection. Six colors are available for selection: White, Purple, Blue, Black, Orange and Green.



Innovative

- Temper glass panel, modern design
- WiFi Mesh technique, saves cost on installation



Intelligent

- Wireless communication (Wi-Fi/Bluetooth), Ethernet/4G optional
- OCPP communication protocol with CMS
- Intelligent operation by App



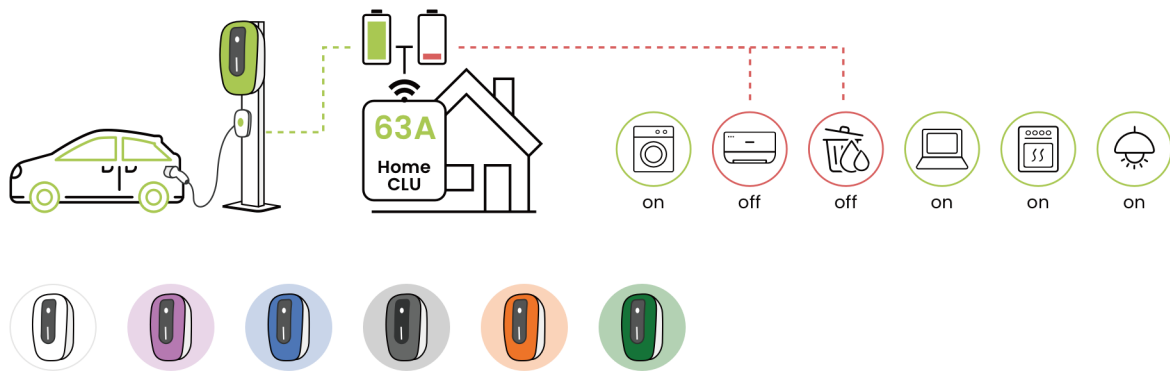
Secure and Safe

- RCD Type A and 6mA DC residual current protection
- MID certified energy meter with accurate measurement



Flexible

- Universal Type 2 socket, optional with Type 1/Type 2 charging cable
- RFID authentication or plug and play
- Wall-mount or floor -stand installation



Datasheet	Model	GS7-AC-B01	GS11-AC-B01	GS22-AC-B01
Power Output	Power Supply	1P+N+PE	3P+N+PE	3P+N+PE
	Rated Voltage	230V AC	400V AC	400V AC
	Rated Current	32A	16A	32A
	Frequency	50/60Hz	50/60Hz	50/60Hz
	Rated Power	7kw	11kw	22kw
User Interface	Charging Port	Type 2 Cable		
	Cable Length	3.5/4/5m		
	LCD Display	4.3" color touch LCD		
Safety	Emergency Stop	Yes		
	RCD	30mA Type A+6mA DC		
	Ingress Protection	IP65		
	Impact Protection	IK10		
	Electrical Protection	Over current protection, Residential current protection, Short circuit protection, Ground protection, Surge protection, Over/Under voltage protection, Over/under frequency protection, Over/under temperature protection		
	Certification Standard	EN/IEC61851-1:2017, EN/IEC 61851-21-2:2018		
Package	Installation	Wall-mount/Pole-mount		
	Work Temperature	-25 to 50°C		
	Work Humidity	5% to 95%		
	Work Attitude	<2000M		
	Product Dimension	340*285*147mm (H*W*D)		
	Net Weight	3.8kg	4.5kg	4.5kg



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