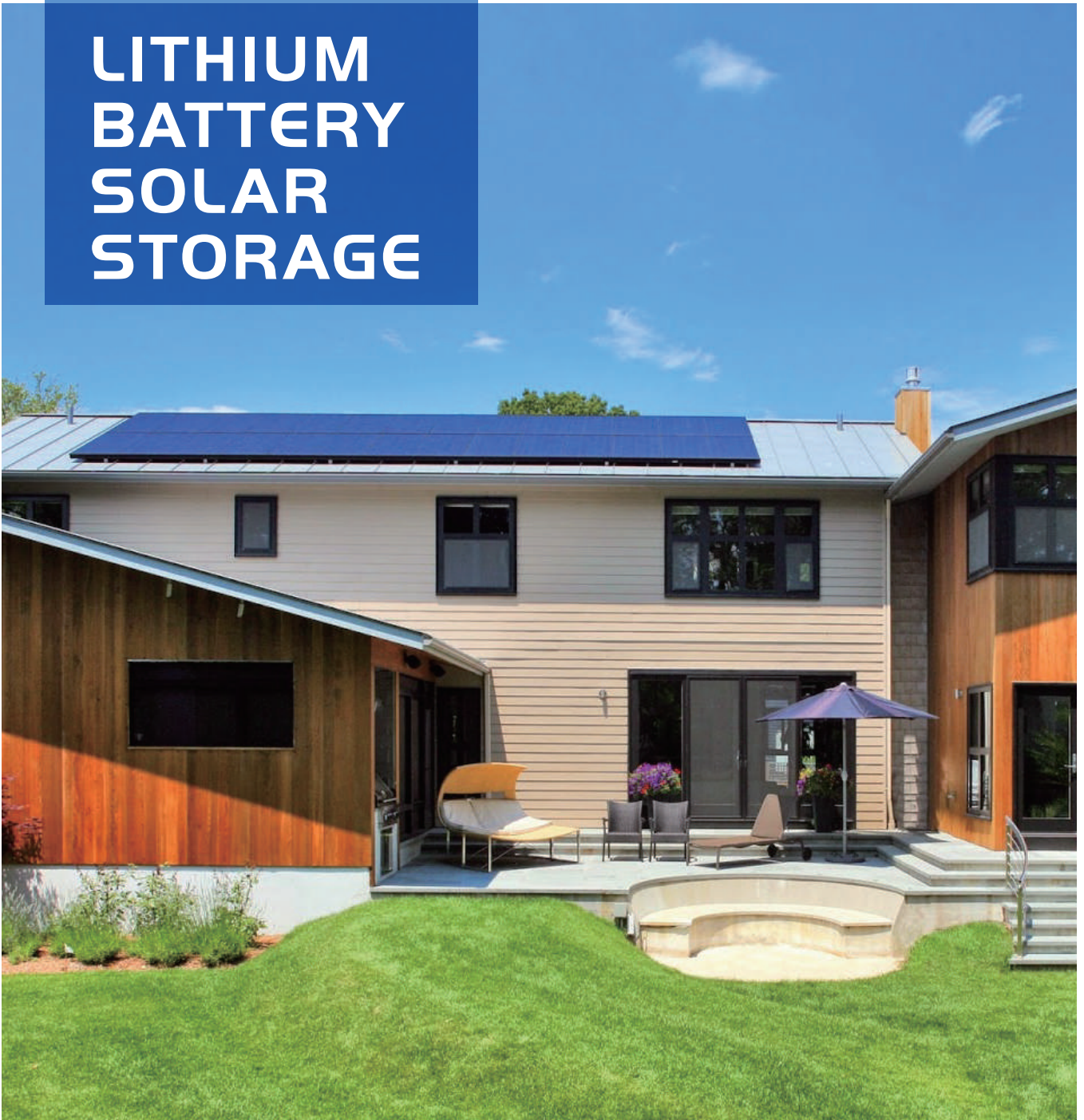


# LITHIUM BATTERY SOLAR STORAGE



Home Energy Storage  
Lithium Ion Battery Pack

# GSL ZN-P48100ESA1 Lithium Battery Module

## ✔ Intelligent

Each module is equipped with an independent BMS system.

## ✔ Safe

Safe lithium ion phosphate battery cell.  
Compact size ultralight module.

## ✔ Intelligent management

GSL is equipped with intelligent BMS for each battery pack to manage modules effectively.

## ✔ Intelligent management

The GSL battery module is widely used in energy storage and electrical products.  
Household energy storage systems; Centralized power station energy storage system.



### Battery Specifications

Model No	ZN-P48100ESA1
Nominal Voltage	48V
Nominal Capacity	100Ah
Power	4.8Kwh
Dimensions (L*w*h)	442*480*130mm
Weight	40kg
Discharge Voltage	45-54V
Charge Voltage	52.5-54V
Max Discharge Current	100A
Max Charge Current	100A
Communication	RS232,RS485,CAN
Charging Temperature	0 °C -50 °C
Discharging Temperature	-20 °C -55 °C
Shelf Temperature	-20 °C -60 °C
Certification	IEC/CE/UN38.3
Design Life	20+Years (25 °C /77 °F)
Cycle Life	>6500 (80% DoD)



### Battery Specifications

Model No	ZN-P48100ESA1	ZN-P48200ESA1	ZN-P48300ESA1	ZN-P48400ESA1
Nominal Voltage	48V	48V	48V	48V
Nominal Capacity	100Ah	200Ah	300Ah	400Ah
Power	4.8Kwh	9.6Kwh	14.4Kwh	19.2Kwh
Dimensions (L*w*h)	442*480*130mm	442*480*130mm*2	442*480*130mm*3	442*480*130mm*4
Weight	40kg	80kg	120kg	160kg
Discharge Voltage	45-54V	45-54V	45-54V	45-54V
Charge Voltage	52.5-54V	52.5-54V	52.5-54V	52.5-54V
Max Discharge Current	100A	200A	300A	400A
Max Charge Current	100A	200A	300A	400A
Communication	RS232,RS485,CAN	RS232,RS485,CAN	RS232,RS485,CAN	RS232,RS485,CAN
Charging Temperature	0°C -50°C	0°C -50°C	0°C -50°C	0°C -50°C
Disharging Temperature	-20°C -55°C	-20°C -55°C	-20°C -55°C	-20°C -55°C
Shelf Temperature	-20°C -60°C	-20°C -60°C	-20°C -60°C	-20°C -60°C
Certification	IEC/CE/UN38.3	IEC/CE/UN38.3	IEC/CE/UN38.3	IEC/CE/UN38.3
Design Life	20+Years (25°C/77°F)	20+Years (25°C/77°F)	20+Years (25°C/77°F)	20+Years (25°C/77°F)
Cycle Life	>6500 (80% DoD)	>6500 (80% DoD)	>6500 (80% DoD)	>6500 (80% DoD)



### Battery Specifications

Model No	ZN-P48500ESA1	ZN-P48600ESA1	ZN-P48700ESA1	ZN-P48800ESA1
Nominal Voltage	48V	48V	48V	48V
Nominal Capacity	500Ah	600Ah	700Ah	800Ah
Power	24Kwh	28.8Kwh	33.6wh	38.4Kwh
Dimensions (L*w*h)	442*480*130mm*5	442*480*130mm*6	442*480*130mm*7	442*480*130mm*8
Weight	200kg	240kg	280kg	320kg
Discharge Voltage	45-54V	45-54V	45-54V	45-54V
Charge Voltage	52.5-54V	52.5-54V	52.5-54V	52.5-54V
Max Discharge Current	500A	600A	700A	800A
Max Charge Current	500A	600A	700A	800A
Communication	RS232,RS485,CAN	RS232,RS485,CAN	RS232,RS485,CAN	RS232,RS485,CAN
Charging Temperature	0°C -50°C	0°C -50°C	0°C -50°C	0°C -50°C
Disharging Temperature	-20°C -55°C	-20°C -55°C	-20°C -55°C	-20°C -55°C
Shelf Temperature	-20°C -60°C	-20°C -60°C	-20°C -60°C	-20°C -60°C
Certification	IEC/CE/UN38.3	IEC/CE/UN38.3	IEC/CE/UN38.3	IEC/CE/UN38.3
Design Life	20+Years (25°C/77°F)	20+Years (25°C/77°F)	20+Years (25°C/77°F)	20+Years (25°C/77°F)
Cycle Life	>6500 (80% DoD)	>6500 (80% DoD)	>6500 (80% DoD)	>6500 (80% DoD)