

# POWERWALL BAYYERY

## ■ NX02-48100

The **NX02-48100** Powerwall is a revolutionary energy storage system that has transformed the way we harness and utilize renewable energy. This cutting-edge product is designed to store electricity generated from renewable sources such as solar panels, allowing homeowners and businesses to reduce their reliance on the traditional power grid.

The **NX02-48100**'s sleek and compact design seamlessly integrates into any environment, providing a seamless and sustainable energy solution.



### Long Life And Safety

6000 cycles with 80% DOD, high-quality prismatic battery cell



### Backup Protection

Stores energy, detects outages and automatically becomes energy source



### Intelligent

With independent smart BMS system, manages power output effectively



### Plug In And Play

Plug in batteries then working, easy to install and set up

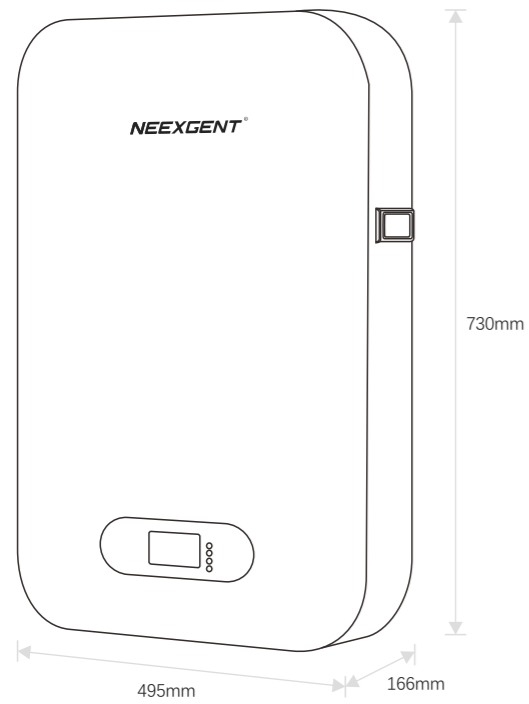
## PRODUCT OVERVIEW

Power your home and electric vehicle with renewable energy you control and reduce your reliance on the grid.

With solar, you typically generate more clean energy than you need. By combining with **NX02-48100**, a rechargeable home battery, you can store excess energy from your solar panels for use anytime—even during a power outage.



# PRODUCT PARAMETERS



-  Dimension (L x W x H)  
495 x 166 x 730mm  
(19.4 x 4.5 x 28.7")
-  Approx. Weight  
194lbs (88kgs)
-  Case Material  
METAL
-  Enclosure Protection  
IP65 waterproof

## ELECTRICAL PERFORMANCE

Nominal Voltage	51.2V
Nominal Capacity	100 Ah
Capacity @ 20A	300 min
Energy	5120Wh
Communication	CAN2.0/RS232/RS485
Resistance	≤0.5 mΩ @ 50% SOC
Efficiency	>96%
Module Parallel	Up to 15 packs
Cycle Life	≥6000
Warranty	10 years

## CHARGE PERFORMANCE

Recommended Charge Current	100A
Maximum Charge Current	100A
Recommended Charge Voltage	57.6V
BMS Charge Cut-Off Voltage	<58.4 V (3.65V/Cell)
Reconnect Voltage	>57.6 V (3.6V/Cell)
Balancing Voltage	<57.6 V (3.6V/Cell)
Maximum Batteries in Series	16 (*Consult NEEEXGENT)
Charge Temperature	-4~113 °F(0~45 °C)

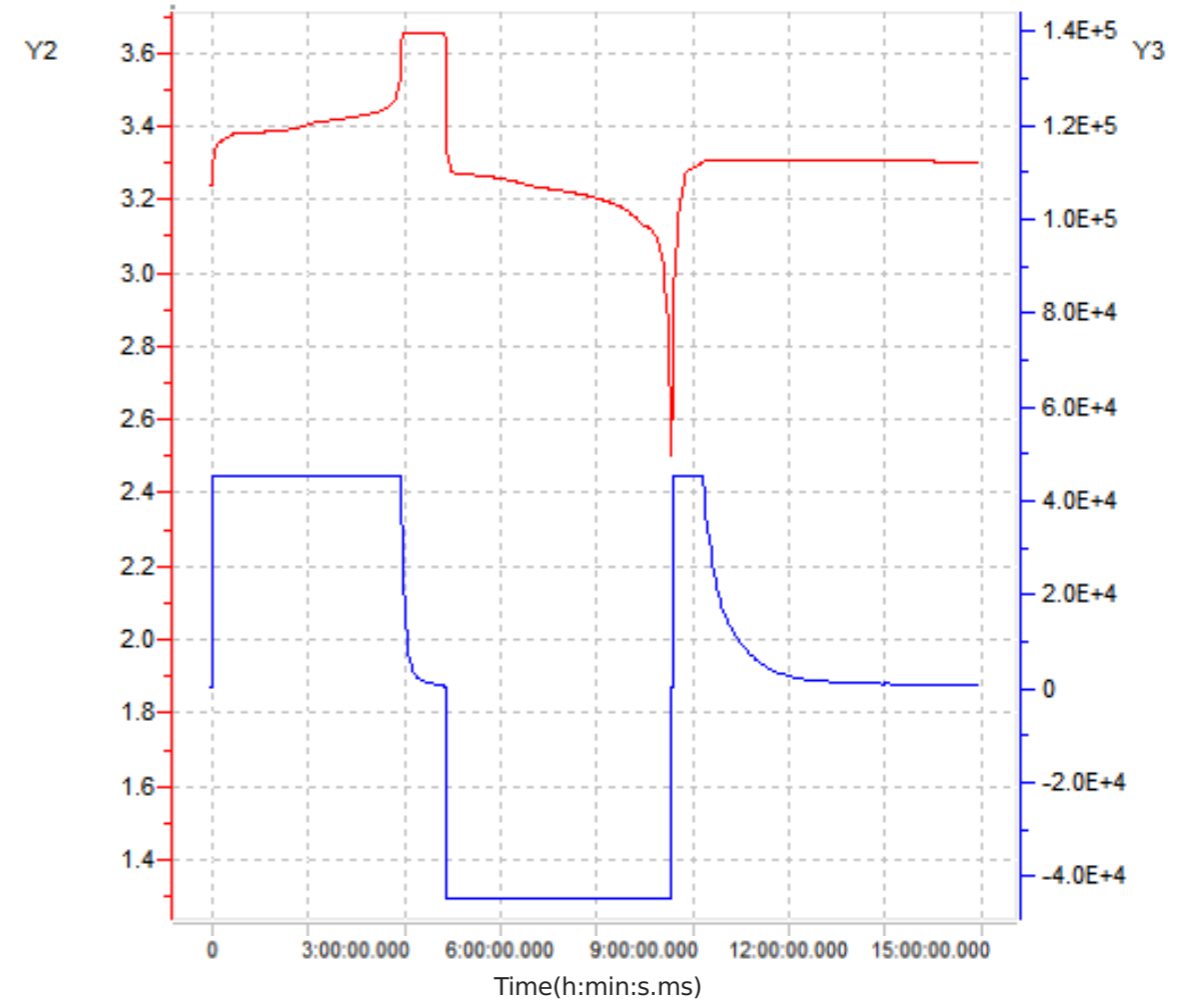
## DISCHARGE PERFORMANCE

Maximum Continuous Discharge Current	100 A
Peak Discharge Current	110 A (3s)
BMS Discharge Cut-Off Current	150 A (300ms)
Balancing open voltage	55.2V (3.45V/Cell)
Recommended Low Voltage Disconnect	44 V (2.75V/Cell)
BMS Discharge Cut-Off Voltage	>32.0V (2s) (2.0V/Cell)
Reconnect Voltage	>40.0 V (2.5V/Cell)
Short Circuit Protection	250 ~ 500 μs
Discharge Temperature	-4~ 131 °F(-20 ~55 °C)

# CHARGING AND DISCHARGING CHART

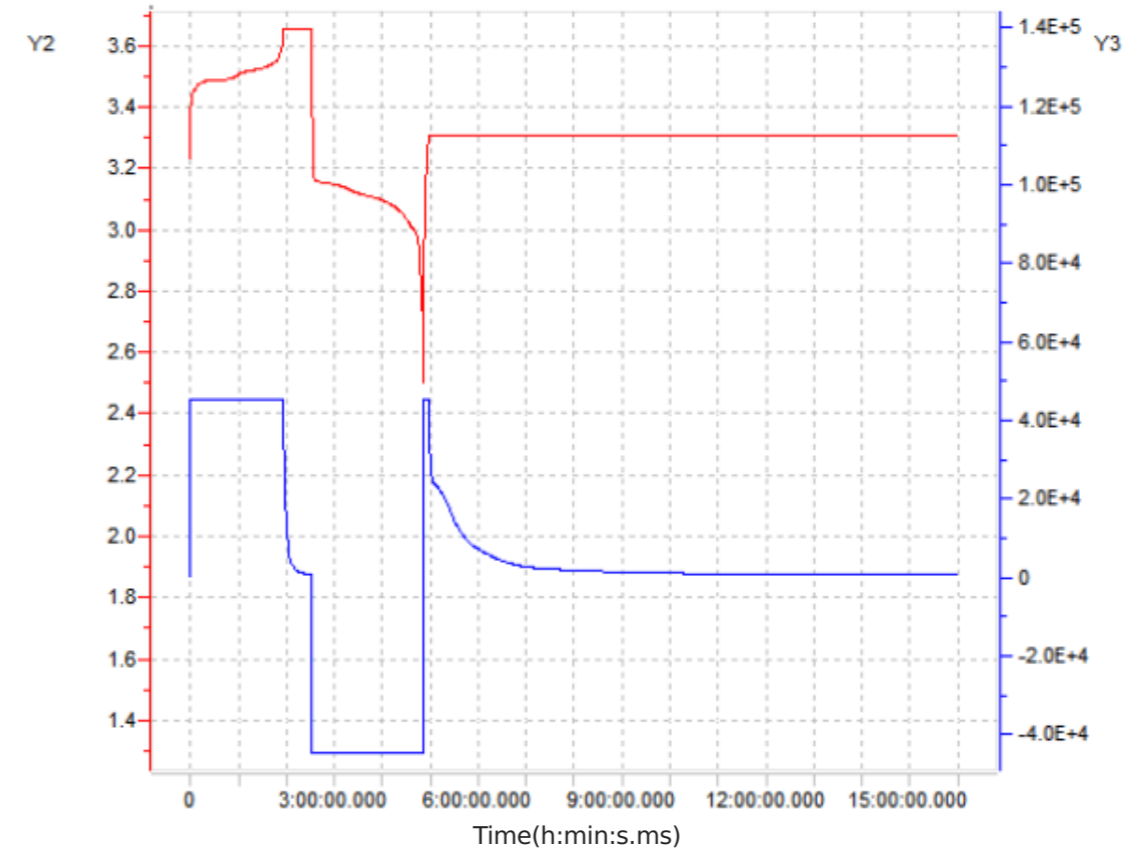
Y2: Voltage(V)

Y3: Current(mA)



Y2: Voltage(V)

Y3: Current(mA)





## YOUR NX02-48100 ECOSYSTEM

### 1 Solar Panels

Solar panels convert the sun's rays into usable energy for your home and tops up your NX02-48100 with clean energy to use when you need it

### 3 Power Everything

NX02-48100 continuous and peak power output allows you to power everything from your lights and refrigerator to your washing machine

### 2 Solar Inverter

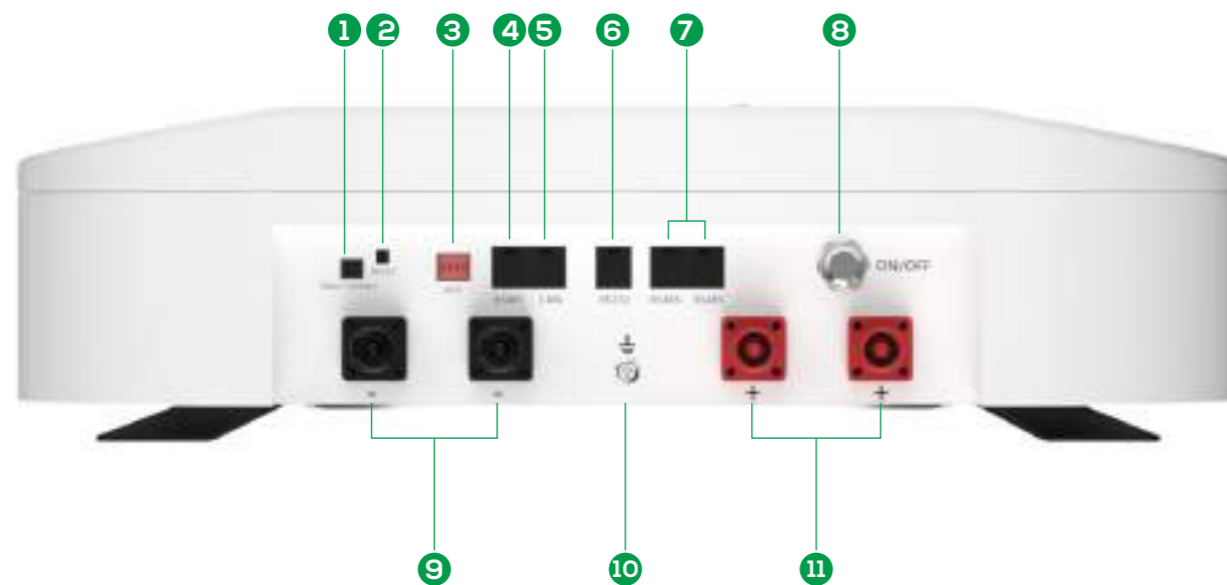
Battery independent design  
Configurable AC/PV output usage timer and prioritization Selectable high power charging current

Selectable input voltage range for home appliance and personal computers Compatible to Utility Mains or generator input  
Built-in anti-dust kit

### 4 NX02-48100 Power wall battery

A home battery that stores excess energy from your solar panels for use day or night to self-power your home and vehicle, even during a blackout

## EQUIPMENT INTERFACE INSTRUCTION



1 Main Contact	2 RESET Switch	3 ADS Dipswitches	4 RS485	6 RS232
7 RS485	8 ON/OFF Switch	9 Negative Electrode	5 CAN	11 Positive Electrode
10 Earth Wire				



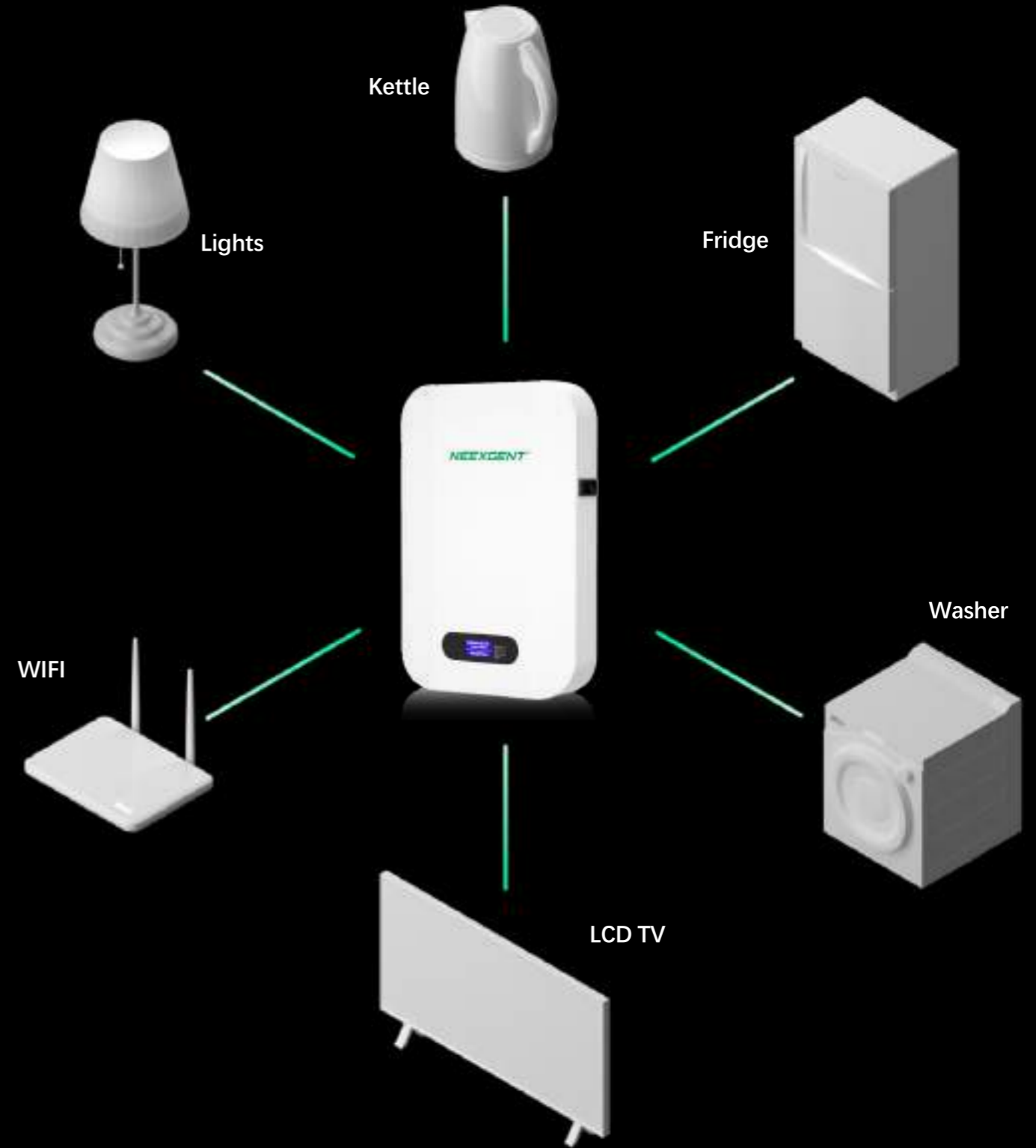
**POWER YOUR HOME AND TOP  
UP YOUR NX02-48100**



**AND USE YOUR STORED CLEAN  
ENERGY AT NIGHT**



**A BATTERY TO  
POWER EVERYTHING**



NX02-48100 can detect a power cut, disconnect from the grid and automatically restore power to your home within a fraction of a second.

With NX02-48100 continuous power output, your home or business keeps running with little disruption.