



- **Stacked Household Energy Storage System**
- **Integrated Household Energy Storage System**
- **Wall-mounted Household Energy Storage System**
- **Inverter Product Parameters**

Super High Security
Super Performance
Simple and Compact Design
Easy Installation



121

Stacked Household Energy Storage System

122

Integrated Household Energy Storage System

123

Wall-mounted Household Energy Storage System

Stacked Household Energy Storage System



Number of modules	2	3	4
Nominal Capacity (kWh)	10.6 kWh	15.9 kWh	21.2 kWh
Recommended Max. Using Capacity (kWh)	9.0 kWh	13.5 kWh	18.0 kWh
Nominal Voltage	204.8V	307.2V	409.6V
Working Voltage Range	172.8V-230.4V	259.2V-345.6V	345.6V-460.8V
Maximum Charge and Discharge Power	6kW	9kW	12kW
Battery Type	LFP	LFP	LFP
Cell capacity	52Ah	52Ah	52Ah
Discharge rate	0.5C	0.5C	0.5C
Max. Charge and Discharge Current(A)	30A	30A	30A
Peak Power (Discharge Only)	7kW for 10s	7kW for 10s	7kW for 10s
Peak Current (Discharge Only)	35A for 10s	35A for 10s	35A for 10s
Power Display	4*LED (25%, 50%, 75%, 100%)		
Status Display	2*LED (work, alarm)		
Way of Communication	CAN, RS485	CAN, RS485	CAN, RS485
Working Temperature(°C)	from -20°C to 50°C		
IP Protection	IP65		
Working Humidity	from 5% to 95%		
Working Altitude	4000m		
Cycle Life	>6000 (70% EOL)		
Certification	IEC62619/ IEC60730/ EN61000/ UN38.3		
Alert	Over charge, over discharge, over current, over temperature, short circuit		
Warranty	10 years		
Dimension (L*W*H) (mm)	700*200*1000	700*200*1350	700*200*1700
Weight (kg)	115	165	215

Super High Security

- IP65 Level Protection
- Vehicle-level safety monitoring
- Vehicle grade explosion-proof design
- Automotive grade AI BMS

Simple and Compact Design

- Stackable Universal Design
- Solid Color Design
- Friendly and concise interface
- Flat, takes up less space

Super Performance

- more than 6000 times life cycle
- Heating system allows working temperature from -20°C to 50°C
- 140% Overload capacity

Easy Installation

- Floor/Wall Mount
- Connected by connector
- Flexible expansion, plug and play

Integrated Household Energy Storage System



Maximum photovoltaic module power	7.5 kW
DC Input Voltage	145-1000V
MPPT Voltage Range	150-850V
Rated Input Voltage	620V
Maximum input current of each MPPT (A)	15
Short Circuit Current (A)	20
No. of MPPT	2
The maximum number of input strings for each MPPT	1
Rated grid-connected power (kW)	5kW
Maximum apparent AC grid power (kW)	5.5kW
Rated Frequency (Hz)	50Hz or 60Hz
Rated Grid Voltage Range (V)	3W/N/PE, 380/400
Maximum Current (Output to Grid)	8.5A
Grid Maximum Output Current	17A
Rated Power	5kW
Peak Output Power (W) @60s	10kW for 1min
Rated Voltage (AC) (V)	3W/N/PE, 380/400
Maximum Output Current (A)	8.5A
Nominal Capacity (kWh)	10.6kWh
Recommended Max. Using Capacity (kWh)	9.0kWh
Maximum Charge and Discharge Power	5kW
Max. Charge and Discharge Current(A)	25A
Rated Voltage (V)	204.8V
Working Voltage Range	179.2-230.4V
Peak Power (Discharge Only)	7kW for 10s
Peak Current (Discharge Only)	35A for 10s
Way of Communication	CAN, RS485
Working Temperature(°C)	from -20°C to 50°C
IP Protection	IP65
Working Humidity	from 5% to 95%
Working Altitude	2000m
Cycle Life	>6000 (70% EOL)
Certification	IEC62619/ IEC60730/ EN61000/ UN38.3
Warranty	10 years
Dimension (L*W*H) (mm)	1450*700*210
Weight (kg)	135

Super High Security

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Simple and Compact Design

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Super Performance

- more than 6000 times life cycle
- Heating system allows working temperature from -20°C to 50°C
- 140% Overload capacity

Easy Installation

- Floor Mount
- Few external interfaces
- Easy distribution network
- Low cost of installation and commissioning

Wall-mounted Household Energy Storage System



Battery Pack Model	5 Degrees Electric Wall-mounted
Type of Battery	LFP
Nominal capacity (Ah)	105
Nominal Voltage (V)	5
Total Storage Capacity (kWh)	3.2
Size (mm)	670*490*190 (w/o wheels)
Weight (kg)	≤ 55
Cycles	≥ 6000
Maximum Charging Voltage	3.65
Rated voltage (V)	51.2
Rated Power	168W
Allowable discharge temperature range	from -20°C to 60°C
Optimum discharge temperature range	15-35°C
Storage temperature	20°C-45°C (within one month) 20°C-35°C (within 6 months)
IP Protection	IP65

Model	5kWh
Recommended maximum PV input power	7500W
Maximum Photovoltaic Input Voltage	1000V
Starting Voltage	180V
Rated Input Voltage	600V
MPPT Voltage Range	150-950V
MPPT Voltage Range under Rated Power	210V-850V
No. of MPPT	2
The Max No. of Photovoltaic Groups per MPPT	1/1
Max. Photovoltaic Input Current	25A (12.5A/12.5A)
Max. Input Current	30A
Photovoltaic Short Circuit Current	32A (16A/16A)
Battery Type	Li-ion battery
Battery Voltage	150V-600V
Max. Input and Discharge Current	30A*30A*
Max. Input and Discharge Power	7500W/ 6000W
Rated AC Output Power	5000W
Max. AC Output Current	7.3A
Rated Voltage (AC) (V)	3W/N/PE, 220/380V; 230/400V; 240/415V
AC Voltage Range	270-480Vac
Rated Grid Frequency/Grid Frequency Range	50Hz/ 45-55Hz, 60Hz/ 55-65Hz
DC Current Injection	<0.5% In
Power Factor	>0.99/ 0.8 leading to 0.8 lagging
Max. Efficiency	98%
European Efficiency	97.20%
Power Supply Mode (Solar/Battery)	Transformerless
IP Protection	IP65
Working Temperature(°C)	from -25°C to 60°C
Allowable relative humidity range (non-condensing)	from 0% to 100%
Cooling Method	Natural convection
Working Altitude	4000m (>3000m derating)
Noise	30dB(A)
Monitor	LED
Communication	RS485, WLAN, Ethernet, CAN, 4xDI, 1xDO
Installation Method	Wall Mount Bracket
Dimension (L*W*H) (mm)	460*540*170
Weight (kg)	27



Inverter Product Parameters

Wall-mounted Household Energy Storage System

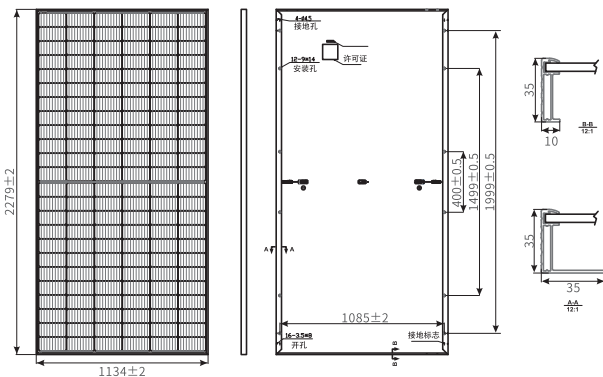
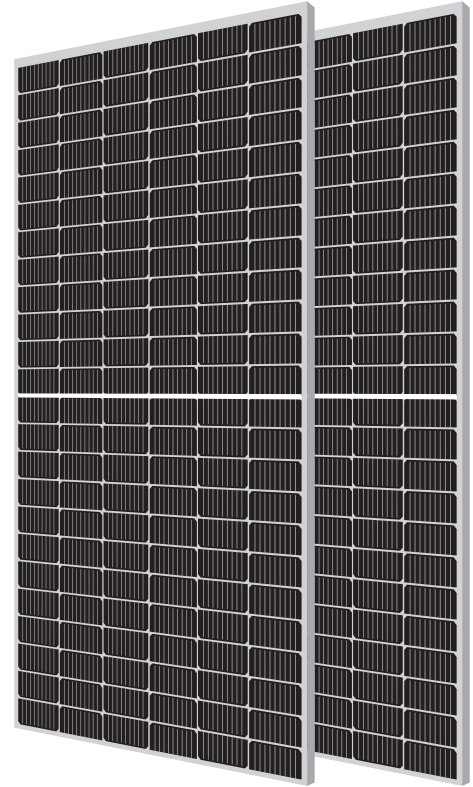
Product Specification

Battery Type	Monocrystalline silicon
Module Weight	28.1kg
Module Size	2279 ± 2mm X 1134 ± 2mm X 35 ± 1mm
Cable Cross-sectional Area	4mm ² (IEC), 12AWG (UL)
Battery Quantity	144 (6 X 24)
Junction Box	IP68 3 diode
Connector	MC4-EVO2/QC4.10-35
Cable Length (including connectors)	300mm (+) / 300mm (-)
Packaging Information	31pcs/plate, 620pcs/40HQ

Electrical Parameters Under STC

Model	ZDNY-72H30M
Maximum Power (Pmax) [W]	550
Open Circuit Voltage (Voc) V	49.85
Operating Voltage at Max. Power (Vmp) V	41.95
Short Circuit Current (Isc) [A]	13.85
Operating Current at Max. Power (Imp) [A]	13.11
Module Efficiency [%]	21.3
Power Tolerance	0~+5W
Short Circuit Current Temperature Coefficient (a Isc)	+0.045%/°C
Open Circuit Voltage Temperature Coefficient (B Voc)	-0.275%/°C
Temperature Coefficient of Max. Power	-0.350%/°C
Standard Test Conditions (STC)	Radioactivity:200W/m2, Battery Temperature: 25°C, Spectrum: AM1.5G

Note: The electrical performance parameters in this catalog do not refer to a single module, nor are the electrical parameters guaranteed in the contract, but are for comparison between different module types.



Note: Frame color and cable length can be customized upon request

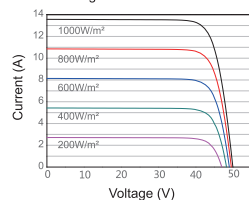
Electrical Parameters Under Noise

Model	ZDNY-72H 30M-550W	System Voltage	1000V/ 1500V DC
Max. Power (Pmax) (W)	416	Operating Temperature	-40°C~+85°C
Open circuit voltage (Voc)	46.68	Max. Fuse Rated Current	25A
Working Voltage at Max. PPT (Vmp) V	39.43	Static Load, Front	5400Pa (113lb/ft ²)
Short Circuit Current (Isc) (A)	11.17	Static Load, Rear	2400Pa (50lb/ft ²)
Working Current at Max. PPT (Imp) A	10.55	Nominal Battery Operating Temperature	45±2°C
Battery Rated Operating Temperature (NOCT)	Radioactivity: 800W/m ² [2>ambient temperature:20°C ,spectrum: AM1.5G, wind speed:1m/s<2]	Security Level	Second Category
		Fire Resistance	UL Type 1

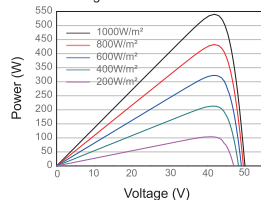
* Static load performance for NetTracker installation method. The front load is 1800Pa, and the back load is 1800Pa.

Characteristic Curve

Current-Voltage Curve ZDNY-72H30M-540W



Power-Voltage Curve ZDNY-72H30M-540W



Current-Voltage Curve ZDNY-72H30M-540W

