





2

R & D Center

3W+m²

Plant

600W+

annual
production capacity

80%+

Mainstream inverter
Manufacturer option

ABOUT ESSOLX

NINGBO ESSOLX SOLAR CO.,LTD, is a leading supplier of the world's finest maintenance free solar energy system to the public at very competitive prices, with an emphasis on professional innovation and quality, we have always put an emphasis on conducting business in an ethical, respon...

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PIONEER

LITHIUM ION BATTERY

Wall Mounted

48V/100AH

51.2V/100AH

48V/200AH

51.2V/200AH



Battery Description

- Stand-type design, sleek and easy to move
- Supports mainstream inverter protocols with direct communication
- Multi-level battery protection with fault isolation for safe operation
- Ideal for residential and small commercial energy storage

LifePo4 Battery Feature:

- Stand design for safety and stability
- Hidden wiring for a clean look
- LCD display for real-time battery monitoring & protocol selection
- Eco-friendly, pollution-free materials (no heavy metals)
- 6000+ cycle lifespan



Over 10 years design life, 5 years warranty



Modular design, high energy density, easy installation



90% Depth of Discharge (DoD)



Compatible with multi-brand energy storage inverters



≥6000 cycle times



Safe, efficient and fast use



5/10KWH LITHIUM ION BATTERY

Model	48V/100Ah-X	48V/200Ah-X
Nominal voltage(V)	48	48
Nominal capacity(AH)	105	210
Nominal energy capacity(kWh)	5	10
Operating voltage range	42~54.75	42~54.75
Recommended charging voltage(V)	52.5	52.5
Recommended discharge cut-offvoltage(V)	45	45
Standard charging current(A)	50	100
Maximum continuous chargingcurrent(A)	100	200
Standard discharge current(A)	10	100
Maximum discharge current(A)	100	200
Applicable temperature(°C)	Recommend - 10~35 Celsius Degree	Recommend - 10~35 Celsius Degree
allowable humidity range	0~95% No Condensation	0~95% No Condensation
Storage temperature(°C)	Recommend - 10~35 Celsius Degree	Recommend - 10~35 Celsius Degree
Protection level	IP20	IP20
cooling method	Natrual Air Cooling	Natrual Air Cooling
Life cycles	5000+ Times at 80& DOD	5000+ Times at 80& DOD
Packing Dimension	755*625*370mm	750*580*465mm
Gross Weight(kg)	65kgs	108kgs

PIONEER

LIFEPO4 LITHIUM ION BATTERY

Floor Mounted

48/300AH

51.2V/300AH

48V/314AH

51.2V/314AH



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Vertical Type Lifepo4 Lithium Ion Battery (Low Voltage Serial)

Model	48V/280Ah-X	48V/314Ah-X	51.2V/280Ah-X	51.2V/314Ah-X
Nominal volt (V)	48		51.2	
Cell specification (Ah)	280	314	280	314
Nominal capacity (Ah)	280	314	280	314
Working volt range	42~54.75		44.8~58.4	
Recommended charging volt (V)	51.75		55.2	
Recommended discharging cut-off volt (V)	45		48	
Standard charging current (A)	100			
Maximum continuous charging current(A)	150			
Standard discharging current (A)	100			
Maximum discharging current (A)	150			
Proper temperature (℃)	-30~60 (Recommended 10~35)			
Allowable humidity range (%RH)	85			
Storage temperature (℃)	-20~65 (Recommended 10~35)			
Protection level	IP20			
Cooling method	Natural air cooling			
Maximum size (D*W*H) mm	246*480*990			
Net weight (kg)	138.5	142.5	141	145

FRONTIER

LITHIUM ION BATTERY

Floor/Wall Mounted

51.2V/280AH
51.2V/300AH
51.2V/314AH



Bluetooth Wi-Fi IP54



Key Feature:

- Stand /Wall design for safety and stability
- Hidden wiring for a clean look
- LCD display for real-time battery monitoring & Touch Screen
- Wifi + 40 Languages Optional
- 8000+ cycle lifespan

5 Years Warranty
5 Years Warranty

PC / WEB / APP
Accessed Power Management

House Made
Smart BMS Technologies

Light weight
Compact size
Easy Installation

8000+ Cycle Life
Longer Cycle Life

RS485 & CAN
Port Communication

Patented Design
Technologies

Worry-Free
Life Span 25 years



Floor/Wall Mounted Lithium Ion Battery			
Model	TB-14.33KWh-X	TB-15.36KWh-X	TB-16KWh-X
Cell Technology	Lithium-iron Phosphate (LiFePO4)		
Capacity	51.2V280Ah	51.2V300Ah	51.2V314Ah
Nominal Energy	14.33Kwh	15.36Kwh	16Kwh
Round-Trip Efficiency	98%		
Scalability	Max. 16 Modules in Parallel		
Installation	Indoor		
Warranty	5 Years Product Warranty/10 Years Performance Warranty		
Nominal Voltage	51.2V		
Max Charge Current	200A		
Max. Cont. Charge Current	200A		
Max Discharge Current	200A		
Max. Cont. Discharge Current	200A		
Operating Voltage Range	43.2V-57.6V		
Charge Cut-off Voltage	58.4V		
Discharge Cut-Off Voltage	43.2V		
Cycle Life	≥8000 Times (80%DoD)		
Service Life	10 Years		
Protection Rating	IP55		
Display	SOC Status Indicator(optional), LED Indicator,Touch Screen		

WORRIOR

LITHIUM ION BATTERY

Floor Mounted

51.2V/300AH



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- 6000+ cycle lifespan

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↔ Modular design, high energy density, easy installation

🔋 90% Depth of Discharge (DoD)

⚙️ Compatible with multi-brand energy storage inverters

🔄 ≥6000 cycle times

🛡️ Safe, efficient and fast use



HIGH STANDARD LITHIUM ION BATTERY SPECIFICATION

No.	Item	Specification
1	Model	WORRIOR-15
2	Capacity	51.2/300Ah
3	Boundary dimension	L460*W280*H820mm (Excluding casters)
4	Serial-Parallel Mode	16S1P
5	Basic Parameter	
6	Nominal voltage	51.2 V
7	Typical capacity	300Ah (15kWh)-At 0.2C
8	Inner resistance	≤60 mΩ -AC 1kHz
9	Working voltage range	43.2~58.4 V
10	Charging Input	
11	Charge method	CC&CV
12	Charge voltage	58.4 V
13	Standard charge current	100 A
14	Max. continuous charge current	200 A
15	Discharging output	
16	Discharge cut-off voltage	43.2 V
17	Standard discharge current	100 A
18	Max. continuous discharge current	200 A
19	Main shell material	SPCC
20	IP class	IP51
21	Cooling method	Air cooling
22	Net weight	Approx 140kg
23	Environmental Requirement	
24	Operation temperature range	Charge : 0°C~45°C, Discharge : -20°C~60°C
25	Storage temperature range	15°C~25°C : ≤12 Months, 0°C~35°C : ≤3 Months
26	Storage humidity	15%-85%RH
27	Extra	Bluetooth
28	Language	Chinese/ English/ Arabic...

51.2V/314AH HV Combiner Box Racking & Parts



Safe, efficient and fast use



HIGH-VOLTAGE BOX



BATTERY MODULE



High Voltage Lithium Ion Battery							
MODEL	X-48K	X-80K	X-113K	X-145K	X-177K	X-209K	X-225K
Product	153.6V 314AH	256.0V 314AH	358.4V 314AH	460.8V 314AH	563.2V 314AH	665.6V 314AH	716.8V 314AH
Nominal Voltage	153.6V/48.23KWH	256.0V/80.38KWH	358.4V/112.54KW	460.8V/145KWH	563.2V/176.84KW	665.6V/209KWH	716.8V/225KWH
Nominal Capacity(Ah)	314	314	314	314	314	314	314
SPECIFICATIONS	PARAMETER						
Nominal Capacity (KWH)	48KWH	80KWH	113KWh	145KWH	177KWH	209KWh	225KWH
Discharge Cut-Off Voltage (V)	132	220	308	396	484	572	616
Charge Cut-Off Voltage (V)	170.4	284	397.6	511.2	624.8	738.4	795.2
Recoend Charge/Discharge Current	100	100	100	100	100	100	100
Max. Charge/Discharge working Current(A)	200	200	200	200	200	200	200
Counication	RS485/RS232/CAN						
Working Temperature	0°C~50°C Charge -10°C ~50°C Discharge						
Transport or Storage Temperature	-20°C~60°C						
Certification	CE/IEC/UL/UN38.3/MSDS						
Design Life	15years+						
Cycle Life	(0.5C/0.5C-80% DOD) >6000 times						
Series Function	Support 16 units in Series						
Certification	UN38.3/MSDS/ROHS						



WeChat



WhatsApp

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