





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...

READ MORE

MONO/N-TYPE/BC/TOPCONN



DEYE HYBRID

SOLAR POWER INVERTER

3/5/8/10/12/15/20/30/50/80KW....

SINGLE PHASE/THREE PHASE
LOW VOLTAGE/HIGH VOLTAGE



Deye



HYBRID SOLAR POWER SYSTEM

5/6/8/10/12KW Single Phase

X-5KW-LP1-EU-DL
X-6KW-LP1-EU-DL
X-8KW-LP1-EU-DL
X-10KW-LP1-EU-DL
X-12KW-LP1-EU-DL



How It Works

- Solar panels generate power during the day
- Inverter supplies loads first in real time
- Extra energy charges the battery
- Battery powers loads at night or outage
- Grid acts as backup when needed

DEYE 5–12kW Hybrid Solar System

48V Low Voltage | One-Stop Solution

- Complete Kit: Inverter + LiFePO₄ battery + panels + all accessories
- 5–12kW Options: Flexible for home & small business
- Tier 1 Panels: Jinko / LONGi / JA / Trina / AIKO
- Smart Hybrid: Grid + off-grid + backup + APP
- UPS Backup: Power always on

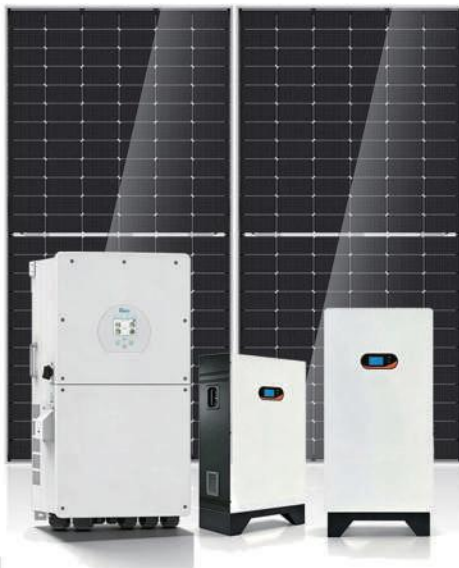


5/6/8/10/12KW HYBRID SOLAR POWER SYSTEM (SINGLE PHASE)					
Model	5kw	6kw	8kw	10kw	12kw
600W MONO Half Cut Solar Panels	12	15	20	24	30
Hybrid Inverter	5kw	6kw	8kw	10kw	12kw
Solar Panel Mounting Kit (Slope Roof/Flat)	1	1	1	1	1
LITHIUM ION BATTERY	16kwh*1 Pcs	16kwh*1 Pcs	16kwh*2 Pcs	16kwh*2 Pcs	16kwh*3 Pcs
Power Cable 35mm2	1m Per Pair*1 Pcs	1m Per Pair*1 Pcs	1m Per Pair*1 Pcs	1.5m Per Pair*1	2m Per Pair*1 Pcs
SOLAR CABLE 6mm2	300m	300m	300m	300m	300m
Tool Bag + MC4	1 Package	1 Package	1 Package	1 Package	1 Package
PV Combiner Box	1	1	1	1	1
ChnageOver Switch	1	1	1	1	1
Ground and Thunder Proective Device	1	1	1	1	1

HYBRID SOLAR POWER SYSTEM

14/16/18KW **SINGLE** Phase

X-14KW-LP1-EU-DL
X-16KW-LP1-EU-DL
X-18KW-LP1-EU-DL



How It Works

- Solar panels generate power during the day
- Inverter supplies loads first in real time
- Extra energy charges the battery
- Battery powers loads at night or outage
- Grid acts as backup when needed

System Feature:

Hybrid Solar System | 48V Low Voltage | Single Phase

- Complete Kit: Inverter + LiFePO4 battery + panels + all accessories
- 14/16/18kW Options: Flexible for home & small business
- Tier 1 Panels: Jinko / LONGi / JA / Trina / AIKO
- Smart Hybrid: Grid + off-grid + backup + APP
- One-Stop Solutions, Complete Solution



14/16/18KW HYBRID SOLAR POWER SYSTEM (SINGLE PHASE)

Model	X-14KW-LP3-EU-DL	X-16KW-LP3-EU-DL	X-18KW-LP3-EU-DL
Rate Power(W)	14kw	16kw	18kw
600W MONO Half Cut Solar Panels	30	30	30
Hybrid Single Phase Inverter	SUN-14K-SG01LP1-EU-AM3-P	SUN-16K-SG01LP1-EU-AM3-P	SUN-18K-SG01LP1-EU-AM3-P
Solar Panel Mounting Kit (Slope Roof/Flat)	1	1	1
LITHIUM ION BATTERY	16kwh*3 Pcs	16kwh*3 Pcs	16kwh*3 Pcs
Power Cable 35mm2	2m Per Pair*1 Pcs	2m Per Pair*1 Pcs	2m Per Pair*1 Pcs
SOLAR CABLE 6mm2	400m	400m	500m
Tool Bag + MC4	1 Package	1 Package	1 Package
PV Combiner Box	1	1	1
ChnageOver Switch	1	1	1

PIONEER

LITHIUM ION BATTERY

Wall Mounted

48V/100AH
51.2V/100AH
48V/200AH
51.2V/200AH

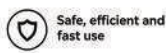
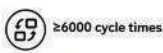
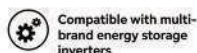
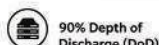
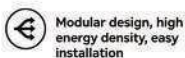
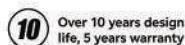


Battery Description

- 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



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-off voltage(V)	45	45
Standard charging current(A)	50	100
Maximum continuous charging current(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



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

10 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



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		

LIFEPO4 BATTERY

51.2V/314AH HV Combiner Box Racking & Parts



10 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

 ≥4000 cycle times

 Safe, efficient and fast use



HIGH-VOLTAGE BOX



BATTERY MODULE



SUNGROW
Over 30 years for us



GOODNE
GOOD EDUCATION



MUST*



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/225KW
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
Coucnition	RS485/RS232/CAN						
Working Temperature	0℃~50℃ Charge -10℃~50℃ Discharge						
Transport or Storage Temperature	-20℃~60℃						
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						

SOLAR CABLE

Tinned Copper

XLPE Insulation

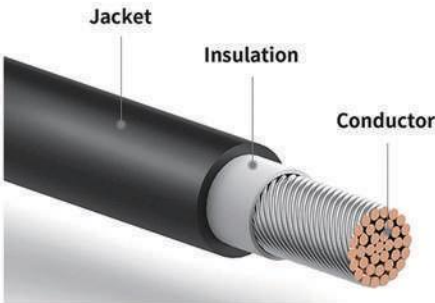
4mm2

6mm2

PV CABLE

2 PFG 1169 PV1-F 1x6.0mm²

2 PFG 1169 PV1-F 1x6.0mm²



4mm2/6mm2 Solar Cable Specification

CONDUCTOR		
AWG	4.0mm2	6.0mm2
MATERIAL	TINNED COPPER	TINNED COPPER
COND.SIZE	56/0.28±0.008mm	84/0.28±0.008mm
INSULATION		
MIN.AVG.THICK	0.7mm	0.7mm
MATERIAL	XLPE	XLPE
O.D.	3.9±0.15mm	4.5±0.15mm
NO.	IC	IC
COLOR	BLACK	BLACK
JACKET		
MIN.AVG.THICK	0.8MM	0.8MM
MATERIAL	XLPE	XLPE
COLOR	BLACK	BLACK
O.D	5.5±0.2mm	6.1±0.2mm
ELECTRICAL PROPERTIES		
Rated Voltage:	U0/U=1000/1000VAC, 1500VDC	
Rated Temperature:	-40℃~125℃	
Dielectric Withstand:	2000VAC/min	
Conductor Resistance	: at 20℃ MAX 3.69Ω/KM	

PV COMBINER BOX

2/4/6/8/10/16 In 1 Out

500V/1000V Optional



Two independent PV array inputs and outputs



Multiple PV input arrays



Degree of protection of IP65



High voltage fuse



Key Feature:

- Meet the need of indoor and outdoor installation
- Maximum access 16 paths of PV tandem, rated current of each path is 15A
- Wide range of DC input voltage, maximum input voltage up to 500/1000VDC
- Dedicated fuse for PV
- Dedicated high-voltage lightning device for PV, with lightning protection function for both positive pole and negative pole
- Multiple machines can work in parallel
- Easy and fast maintenance
- Remote monitor (optional)

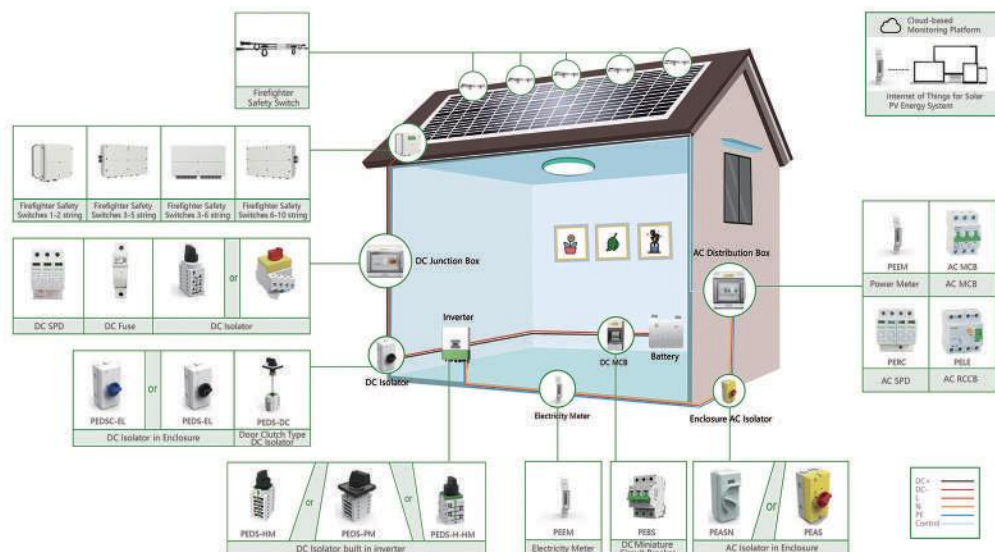


PV Combiner Box

	4	6	8	10	16
Number of PV inputs					
Max single PV array current			16A		
Single PV array fuse			16A		
Single PV array wire size			4mm ²		
Output numbers			1		
Max output current	40A	60A	80A	100A	200A
Output wire size mm ²	10mm ²	16mm ²	20mm ²	25mm ²	35mm ²
Max output voltage			1000VDC		
DC output circuit breaker			Yes		
Protection			IP65		
Temperature range			-30℃~60℃		
Cooling way			Natural cooling		
SPD protection			20KA-40KA		
Ground wire size			≥6mm ²		

SOLAR PARTS

Complete Range of
DC & AC PV Smart Switches
MCB/MCCB/SPD/FUSE...
DISTRIBUTION BOX/ENCLOSURES...
ATS/VOLTAGE PROTECTIVE DEVICE...





BUSINESS PARTNERS





- Energy Storage Specialist -



WeChat



WhatsApp

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