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ANSEAT LASERTECHNIK GMBH

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Residential Energy Storage Solutions



Home Energy Storage Solution

Product Catalog

Low-voltage Lithium battery

Part 1

X- Nebula series

X- OTW series

X- OLR series

High-voltage Lithium battery

Part 2

X- OHS series

X- OHR series

All in One System

Part 3

Lead Acid Replacement

Part 4

Nebula Series

- Well-designed structure
- 4 inches Color touch screen
- Expand easily
- Smart Monitoring (APP control)
- Grade A cells, 6000 cycles
- Muti-language options (customizable)



Technical Specification



Model	X- NES-W48100	X- NES-W48200	X- NES-R48300		X- NES-R48412
Rated Capacity(Ah)	100	200	280	314	412
Battery Type	LiFePO ₄				
Rated Voltage(V)	51.2				
Voltage Range(V)	44.8~57.6				
Rated Energy(kWh)	5.12	10.24	14.33	16.07	21.09
Recommend Charging&DischargingCurrent(A)	50	80	140		157
Max.Charge&Discharging Current(A)	100	100	200		200
Net Weight(kg)	50	100	130		205
DimensionW*H*D(mm)	460*590*182.5	570*882*240	560*916*265		660*1080*275
Depth of Discharge	90%				
Recomended Charge & Discharge C Rate	0.5C				
Expansion	Up to 15 units in parallel				
Installation	Wall-mounted	Floor-mounted			
Communication	RS485&CAN&RS232				
Ingress Protection	IP20				
Cycle Life *	≥6000@25°C				
Operating Temperature Range	Charge: 0°C to 50°C, Discharge:-20°C to 50°C				
Monitoring & Protection	Each system has smart BMS, bluetooth module in battery				
Safety Certificate	CE/IEC62619/UN38.3/MSDS				

* Test conditions: 0.2C Charging & Discharging , @25°C

Waterproof Series



Expand easily



Steel frame: steady & stable



Grade A cells, 8000 cycles



Smart Monitoring



IP65: perfect for outdoor installation

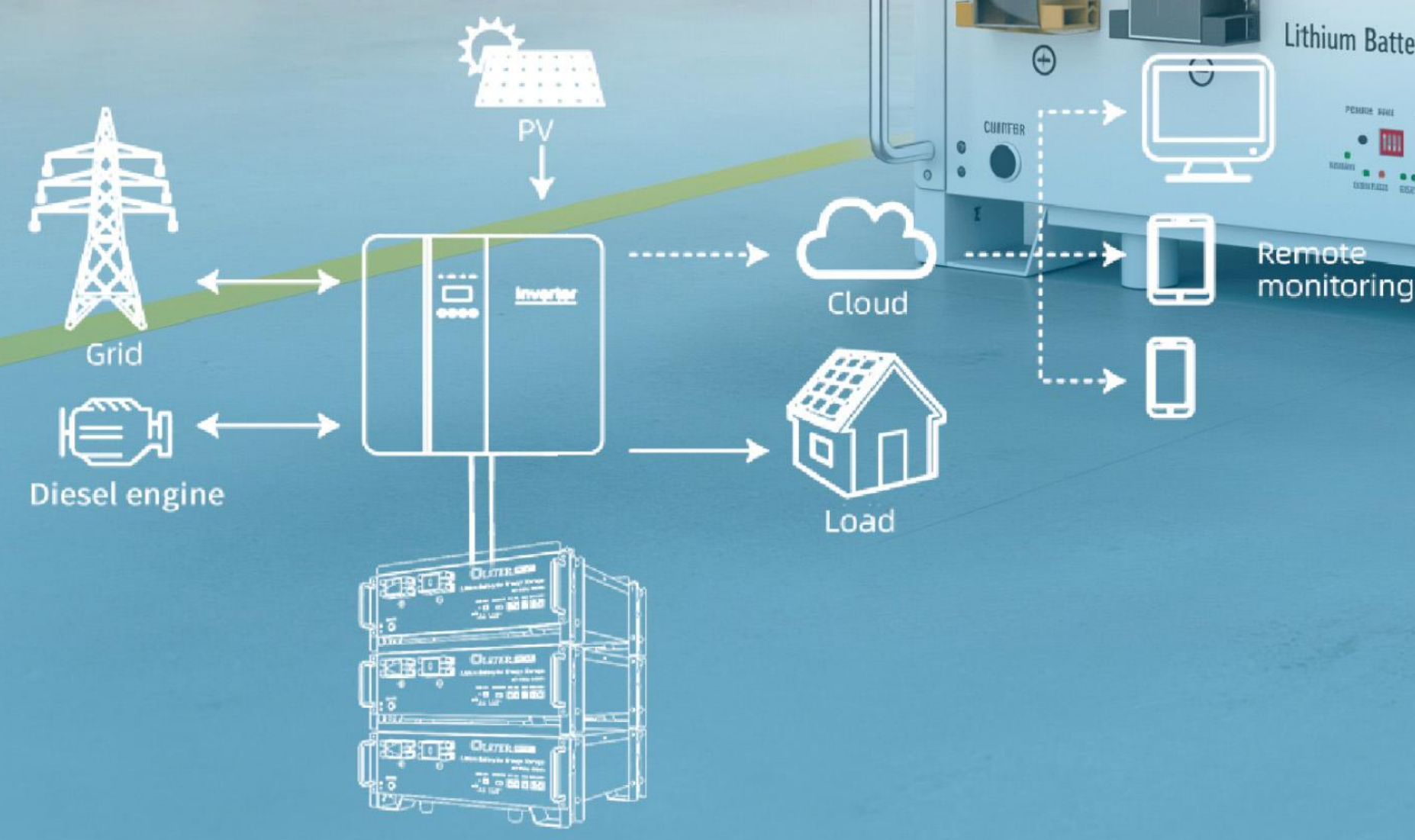
Technical Specification

X-SOLAR™

Model	X-OTW-4810016	X-OTW-4820016
Rated Capacity(Ah)	100	200
Battery Type	LiFePO ₄	
Rated Voltage(V)	51.2	
Voltage Range(V)	44.8~57.6	
Rated Energy(kWh)	5.12	10.24
Recommend Charging&Discharging Current(A)	50	80
Max.Charge&Discharging Current(A)	100	100
Net Weight(kg)	54	102
DimensionW*H*D(mm)	475*675*221	577*985*237
Depth of Discharge	90%	
Recomended Charge & Discharge C Rate	0.5C	
Expansion	Up to 15 units in parallel	
Installation	Wall -mounted	
Communication	RS485&CAN&RS232	
Ingress Protection	IP55	
Cycle Life	≥8000@25 °C	
Operating Temperature Range	Charge : 0°C to 50°C, Discharge: -20°C to 50°C	
Monitoring & Protection	Each system has smart BMS, bluetooth module in battery	
Safety Certificate	CE/IEC62619/UN38.3/MSDS	

Rack-Mounted (Low Voltage) Lithium battery

- Expand easily
- Smart Monitoring (Optional)
- Enhanced Reliability
- Flexible voltage options
- Multiple scenarios: rack or cabinet installation



Technical Specification



X-OT-48100 X-OT-48200 X-OT-48300

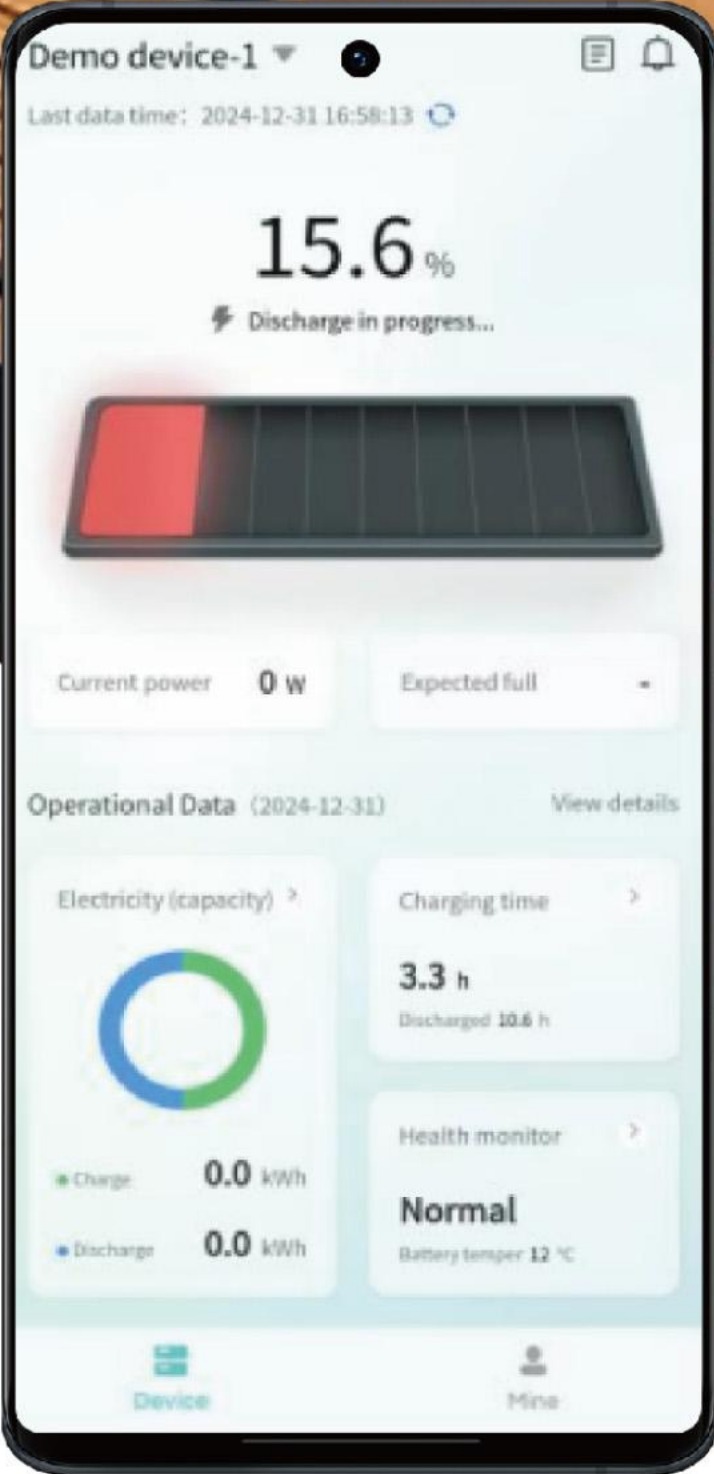
Model	X-OT-24100	X-OT-24200	X-OT-48100	X-OT-48200
Rated Capacity(Ah)	100	200	100	200
Battery Type	LiFePO ₄			
Rated Voltage(V)	25.6		51.2	
Voltage Range(V)	22.4~28.8		44.8~57.6	
Rated Energy(kWh)	2.56	5.12	5.12	10.24
Recommend Charging&Discharging Current(A)	50			
Max.Charge&Discharging Current(A)	100			
Net Weight(kg)	26	47.8	43.4	87
DimensionW*H*D(mm)	480*133*353	480*133*403	480*133*443	480*250*602
Depth of Discharge	90%			
Recomended Charge & Discharge C Rate	0.5C			
Expansion	Up to 15 units in parallel			
Installation	Rack-mounted			
Communication	RS485&CAN&RS232			
Ingress Protection	IP20			
Cycle Life	≥6000@25℃			
Operating Temperature Range	Charge : 0℃ to 50℃, Discharge: -20℃ to 50℃			
Monitoring & Protection	Each system has smart BMS, bluetooth module in battery			
Safety Certificate	CE/IEC62619/UN38.3/MSDS			

Stack HV Series

Technical Specification

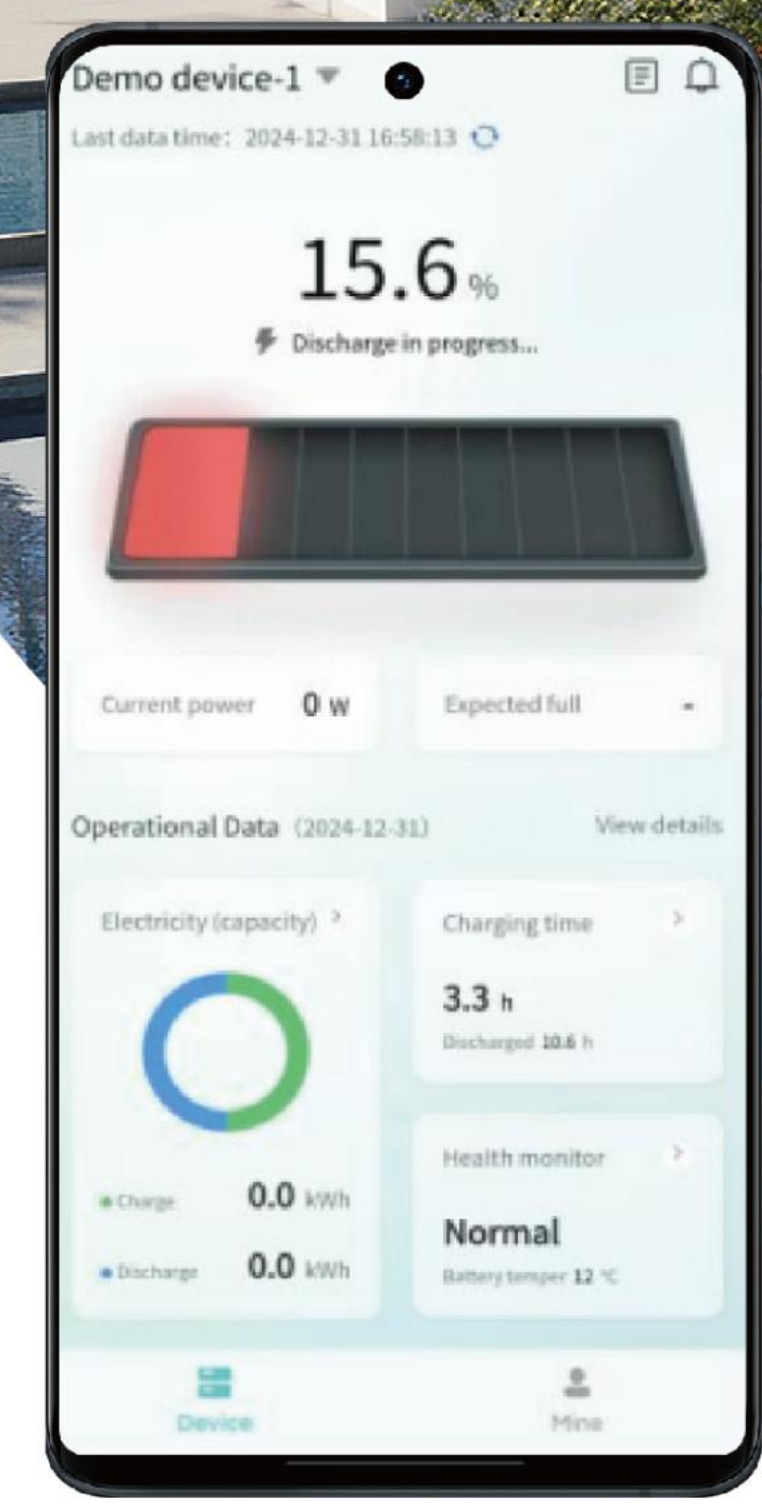
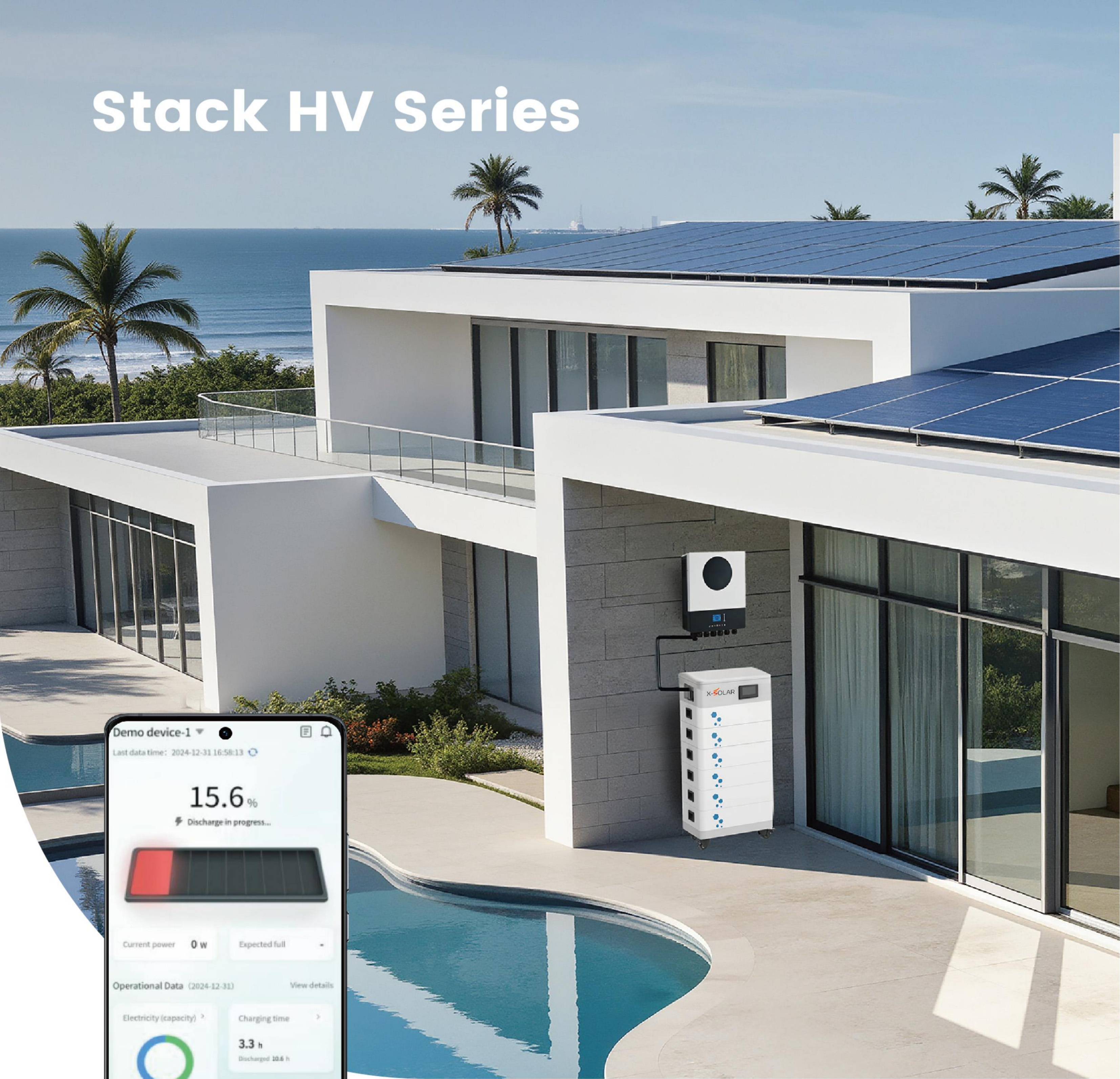


Model	X- OHS7.5K	X- OHS10K	X- OHS12.5K	X- OHS15K	X- OHS17.5K	X- OHS20K
Rated Capacity(Ah)	50					
Battery Type	LiFePO ₄					
Rated Voltage(V)	153.6	204.8	256	307.2	358.4	409.6
Voltage Range(V)	134.4~172.8	179.2~230.4	224~288	268.8~345.6	313.6~403.2	358.4~460.8
Rated Energy(kWh)	7.68	10.24	12.8	15.36	17.92	20.48
Recommend Charging&DischargingCurrent(A)	25					
Max.Charge&Discharging Current(A)	50					
Net Weight(kg)	117.7	148.7	179.7	210.7	241.7	272.7
DimensionW*H*D(mm)	800*722*280	800*864*280	800*1006*280	800*1148*280	800*1290*280	800*1432*280
Depth of Discharge	90%					
Recomended Charge & Discharge C Rate	0.5C					
Expansion	Up to 3~10 units in series and 6 cluster in parallel					
Installation	Stack-mounted					
Communication	CAN					
Ingress Protection	IP65					
Cycle Life	≥8000@25℃					
Operating Temperature Range	Charge: 0℃ to 50℃, Discharge:-20℃ to 50℃					
Monitoring & Protection	Each system has smart BMS,DC breaker&fuse, bluetooth module in battery					
Safety Certificate	CE/IEC62619/UN38.3/MSDS					



- Grade A cells, 8000 cycles
- Smart control &High safety
- 2.5kWh small modular & flexible expansion
- IP65: Perfect for outdoor use
- Maximum 2.56kwh*10S*6P
- Elegant design that matches your home decoration

Stack HV Series



-  Grade A cells, 8000 cycles
-  Smart control &High safety
-  5kWh big module meets high consumption requirements
-  IP65: Perfect for outdoor use
-  Maximum 5.12kwh*10S*6P
-  Elegant design that matches your home decoration

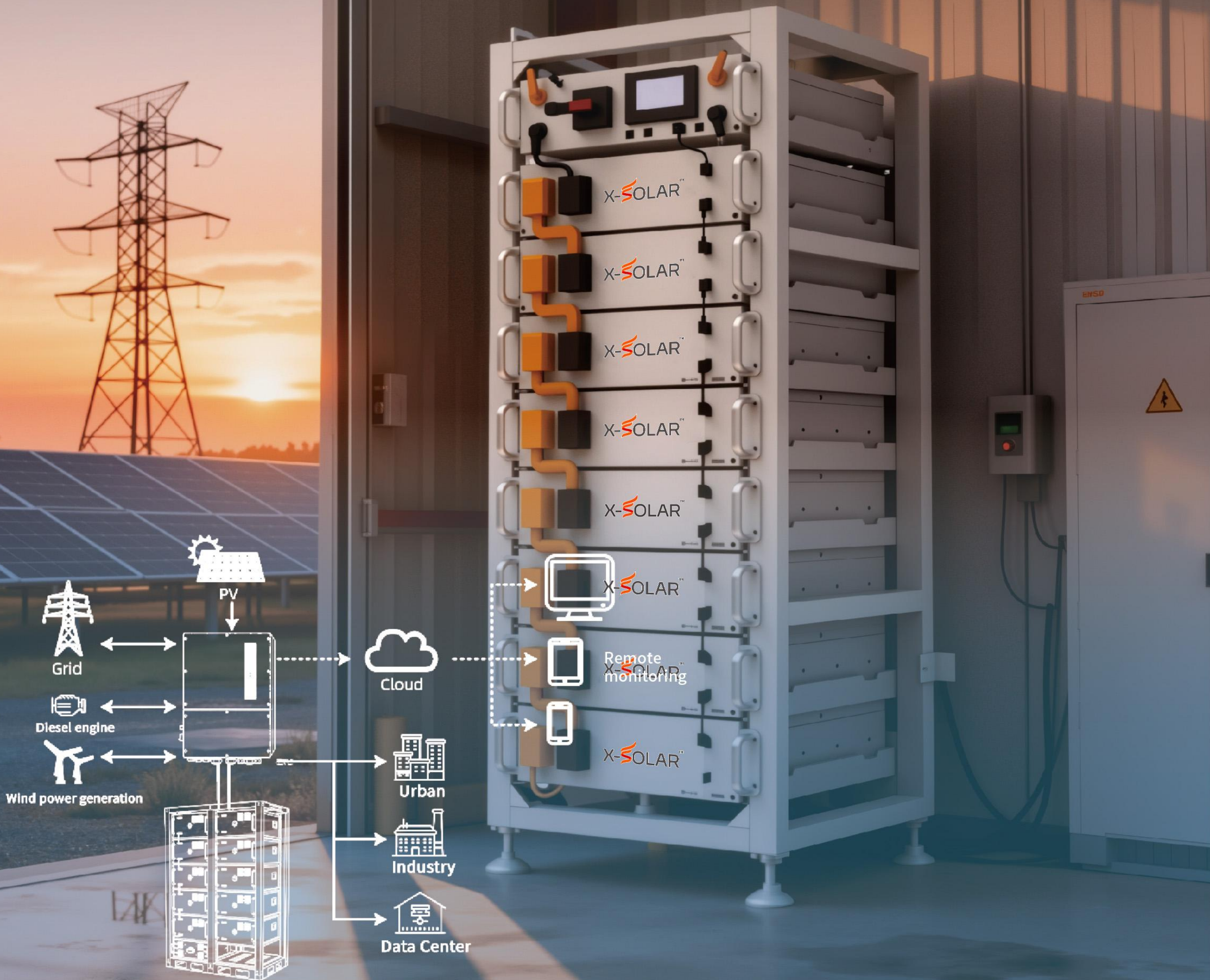
Technical Specification



Model	X- OHS15K	X- OHS20K	X- OHS25K	X- OHS30K	X- OHS35K	X- OHS40K
Rated Capacity(Ah)	100					
Battery Type	LiFePO ₄					
Rated Voltage(V)	153.6	204.8	256	307.2	358.4	409.6
Voltage Range(V)	134.4~172.8	179.2~230.4	224~288	268.8~345.6	313.6~403.2	358.4~460.8
Rated Energy(kWh)	15.36	20.48	25.6	30.72	35.84	40.96
Recommend Charging&DischargingCurrent(A)	40					
Max.Charge&Discharging Current(A)	50					
Net Weight(kg)	170	215	260	305	350	395
DimensionW*H*D(mm)	590*688*420	590*838*420	590*988*420	590*1138*420	590*1288*420	590*1438*420
Depth of Discharge	90%					
Recomended Charge & Discharge C Rate	0.5C					
Expansion	Up to 3~10 units in series and 6 cluster in parallel					
Installation	Stack -mounted					
Communication	CAN					
Ingress Protection	IP65					
Cycle Life	≥8000@25 °C					
Operating Temperature Range	Charge : 0°C to 50°C, Discharge: -20°C to 50°C					
Monitoring & Protection	Each system has smart BMS,DC breaker&fuse, bluetooth module in battery					
Safety Certificate	CE/IEC62619/UN38.3/MSDS					

Rack-Mounted (High Voltage) Lithium battery

-  Top Brand BMS
-  Expandable: Maximum 5.12kwh*12S*4P
-  Grade A cells, 8000 cycles
-  Remote Monitoring (Cloud)
-  High safety: Built-in fire protection device



Technical Specification



Model	X-OHR15K	X-OHR20K	X-OHR30K	X-OHR40K	X-OHR50K	X-OHR60K
Rated Capacity(Ah)	100					
Battery Type	LiFePO ₄					
Rated Voltage(V)	153.6	204.8	307.2	409.6	512	614.4
Voltage Range(V)	134.4~172.8	179.2~230.4	268.8~345.6	358.4~460.8	448~576	537.6~691.2
Rated Energy(kWh)	15.36	20.48	30.72	40.96	51.20	61.44
Recommend Charging&DischargingCurrent(A)	50					
Max.Charge&Discharging Current(A)	100					
Net Weight(kg)	208	253	344	435	541	632
DimensionW*H*D(mm)	590*840*550	590*990*550	590*1280*550	590*1600*550	590*1920*550	590*2090*550
Depth of Discharge	90%					
Recomended Charge & Discharge C Rate	0.5C					
Expansion	Up to 12 units in series and 4 cluster in parallel					
Installation	Rack-mounted					
Communication	CAN					
Ingress Protection	IP20					
Cycle Life	≥6000@25℃					
Operating Temperature Range	Charge: 0℃ to 50℃, Discharge:-20℃ to 50℃					
Monitoring & Protection	Each system has smart BMS,DC breaker&fuse, bluetooth module in battery					
Safety Certificate	CE/IEC62619/UN38.3/MSDS					

ALL IN ONE SYSTEM (1-3kWh)

Emergency supply & Backup power



2-hour fast charging

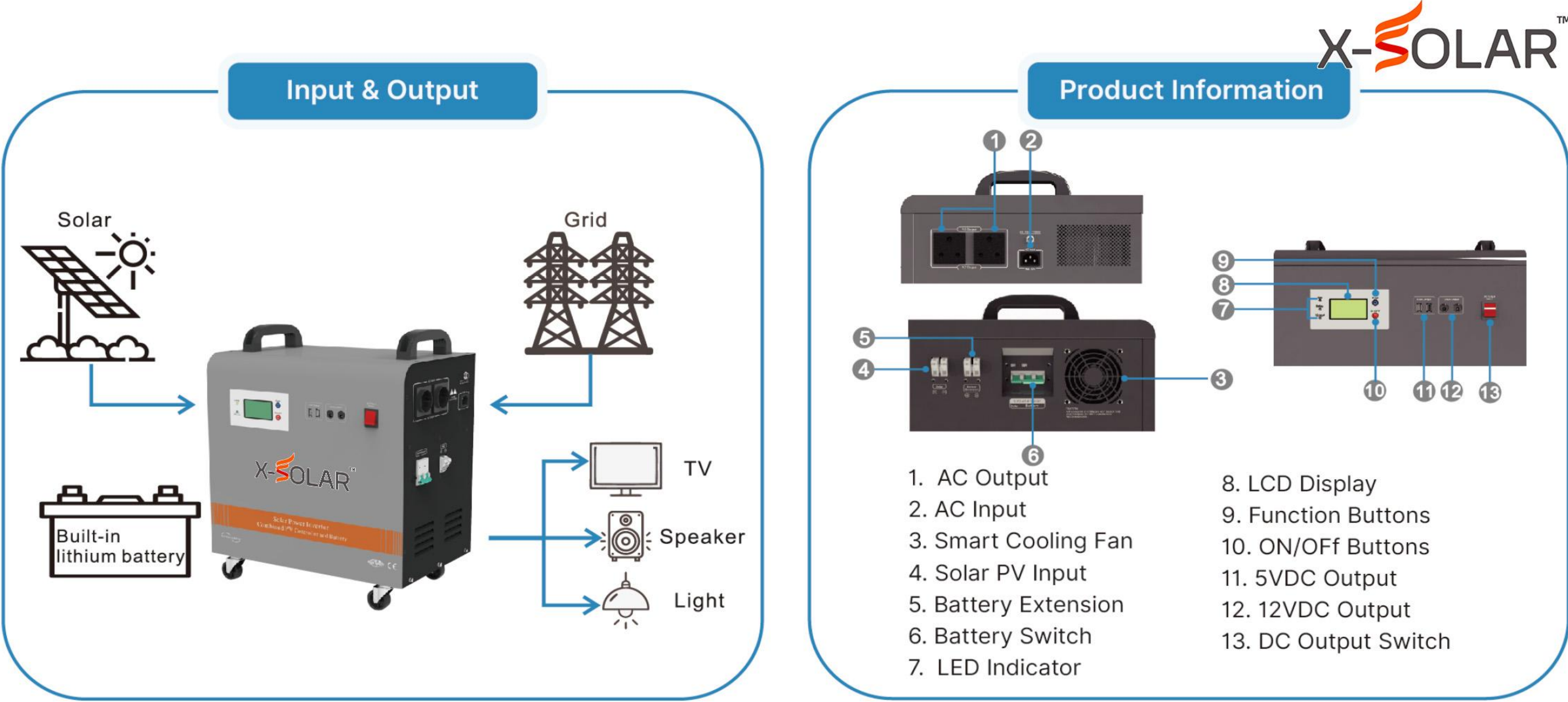
Free expansion: Can be used in parallel

Multi-input options: PV / Grid /Generators

Pure sine wave output with UPS function

LFP Battery 4500+Cycles, design life of 10 years

Overload protection & short circuit protection



Model	1kW/12.8V	2kW/25.6V
INVERTER		
Battery voltage	12 .8V	25.6V
In-built battery specification	100AH/12 .8V* 1	100AH/25.6V* 1
Rated power	1000W	2000W
Input voltage range	145-275VAC	170-275VAC
output voltage	220VAC	
output frequency	50/60Hz	
output waveform	pure sine wave	
charge by a mains supply		
Rated voltage	220VAC---*('*' means an optional function)	
charge current	15A (MAX)	
solar input		
Maximum photovoltaic voltage	≤25V	≤100V
charge voltage	10-25V	30-100V
Rated charge current	PWM 30A	MPPT 30A
Voltage of overcharge protection	14 .5V	29V
Voltage of floating charge	14 .2V	28.4V
Dc output		
Voltage of high-voltage protection	17V	34V
Voltage of high voltage recovery	15.5V	31V
Voltage of low voltage recovery	13V	26V
Voltage of low voltage protection	11 .2V	22 .4V
5VDC USB output port	2 units/ MAX 2A	
12V Dc output port	2DC ports/ MAX 2A	
starting temperature of the exhaust fan	>45℃	
Ambient temperature for operation	0-40℃	
Ambient temperature for storage	-25 - +55℃	
operation/storage conditions	0-90% (no condensation)	
External dimension: D*W* H (mm)	421*273*494	586*371*613
Net Weight (kg)	28.5	49.5

Aurora Series

Lithium Battery for lead-acid replacement



Accurate
Soc Display

Smart
Monitoring

High energy density
(3 times of lead-acid)

Applications:

RVs and yachts

Golf trolleys & scooters

Solar/wind energy storage

Back-up power for small UPS

Technical Specification

X-SOLAR™

Model	X-OLT -12.8V50Ah	X-OLT -12.8V100Ah	X-OLT -12.8V150Ah	X-OLT -12.8V200Ah
Rated Capacity(Ah)	50	100	150	200
Battery Type	LiFePO ₄			
Rated Voltage(V)	12.8			
Voltage Range(V)	11.2~14.4			
Rated Energy(kWh)	0.64	1.28	1.92	2.56
Recommend Charging&DischargingCurrent(A)	25	50		
Max.Charge&Discharging Current(A)	50	100		
Net Weight(kg)	6	11.6	15.4	21
DimensionW*H*D(mm)	198*170*166	331*214*171	385*194*248	522*219*242
Depth of Discharge	90%			
Recomended Charge & Discharge C Rate	0.5C			
Expansion	Up to 15 units in parallel			
Installation	Rack-mounted			
Terminal	M6	M8		
Ingress Protection	IP65			
Cycle Life	≥6000@25 °C			
Operating Temperature Range	Charge : 0°C to 50°C, Discharge: -20°C to 50°C			
Monitoring & Protection	Each system has smart BMS			
Safety Certificate	CE/IEC62619/UN38.3/MSDS			

Model	X-OLT -25.6V100Ah	X-OLT -25.6V120Ah	X-OLT25.6V150Ah	X-OLT -25.6V200Ah
Rated Capacity(Ah)	100	120	150	200
Battery Type	LiFePO ₄			
Rated Voltage(V)	25.6			
Voltage Range(V)	22.4~28.8			
Rated Energy(kWh)	2.56	3.07	3.84	5.12
Recommend Charging&DischargingCurrent(A)	50			
Max.Charge&Discharging Current(A)	100			
Net Weight(kg)	21	26	29	39.6
DimensionW*H*D(mm)	522*219*242	530*215*207	530*215*207	522*218*269
Depth of Discharge	90%			
Recomended Charge & Discharge C Rate	0.5C			
Expansion	Up to 15 units in parallel			
Installation	Rack-mounted			
Terminal	M8			
Ingress Protection	IP65			
Cycle Life	≥6000@25 °C			
Operating Temperature Range	Charge : 0°C to 50°C, Discharge: -20°C to 50°C			
Monitoring & Protection	Each system has smart BMS			
Safety Certificate	CE/IEC62619/UN38.3/MSDS			