

INVERX

Solar Energy Storage System

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iGarden Sunshine Life

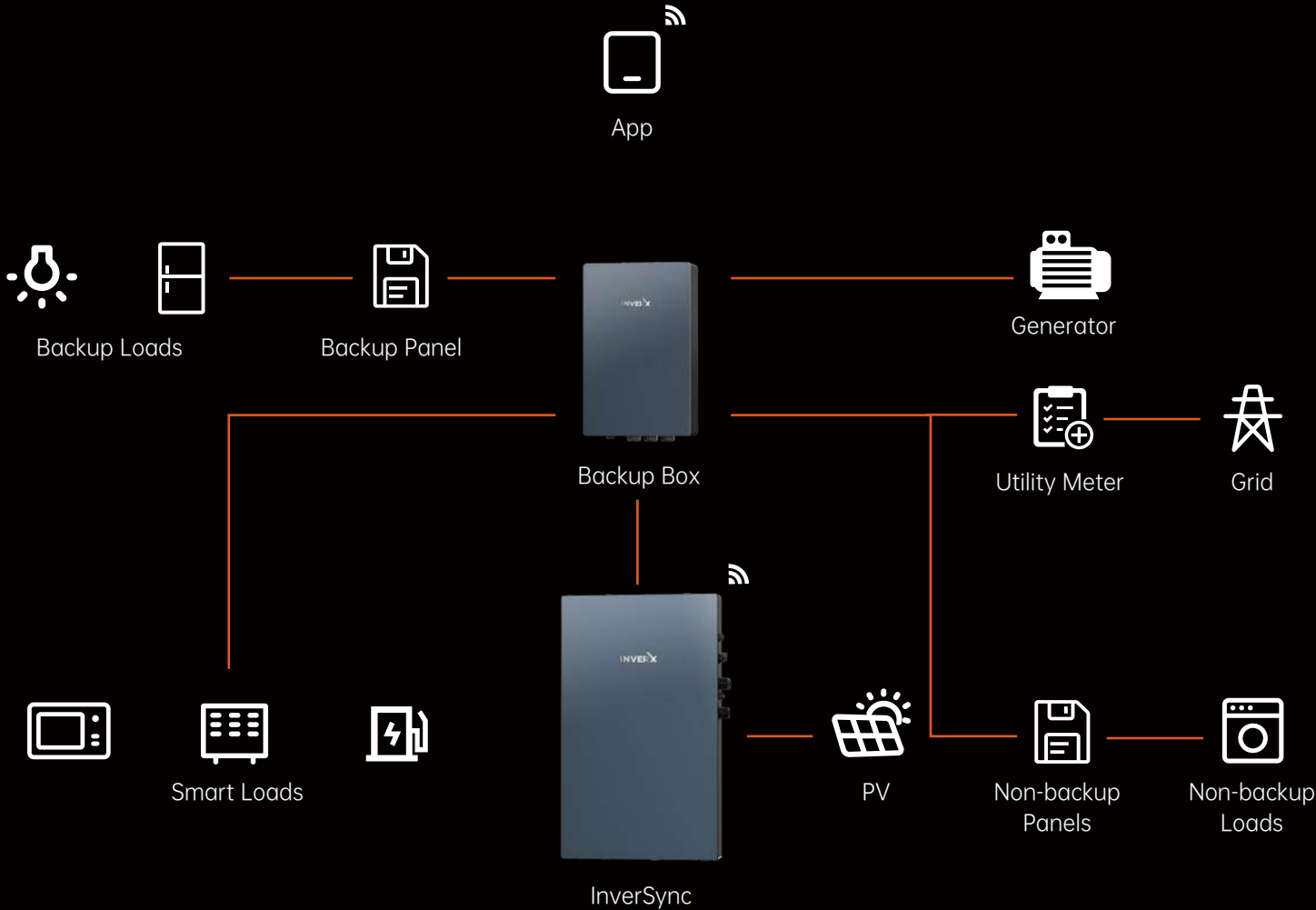
100% Green



All-in-One Energy Storage System

InverSync Series

Unique Pad Design



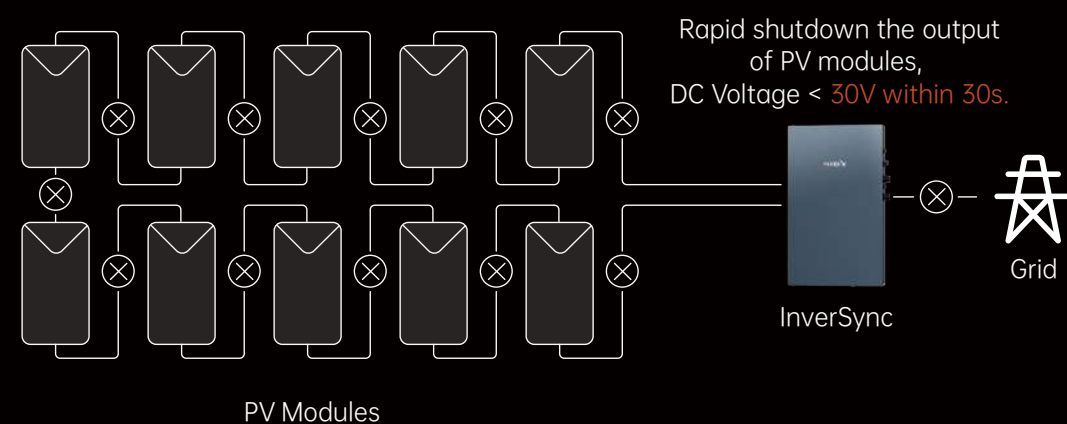
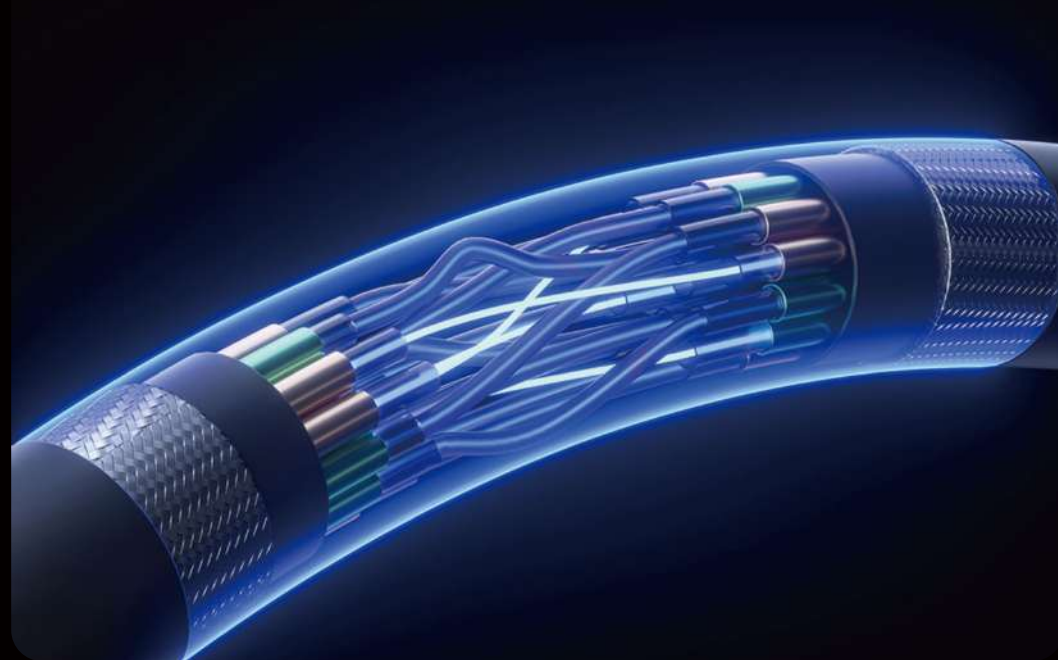
100% Whole-home Backup



Super Silence Operation



AFCI & RSD Detect and Execute



Other Features :



Integrated system, Fast installation

- Fully integrated solar and battery system;
- Homesync gateway designed to smart load management;
- Flexible communication: WiFi, 4G, WLAN etc.
- Floor and wall mounted;
- Easy local & remote control, 24-hour fully intelligent energy management;



High Performance

- 200% PV oversizing, increase profitability
- Max. 98%, high conversion efficiency
- Built-in 3MPPTs, allowing flexible configuration
- Up to 4 systems in parallel, max. 30.4kW/60kWh



Power Versatility

- Multiple working mode for optimal performance;
- Micro-grid supported, wide compatible with inverter;
- Compatible with Generator;
- EV charger and heat pump extendable;
- VPP interface ready;
- 100% Green supported;



Safety & Reliability

- Integrated AFCI & RSD, proactively reduce fire risk;
- 6,000 cycle times, long lifespan;
- IP65 rating, ideal for both indoor and outdoor installations;

InverSync (Hybrid, EU model) Technical data

Model Number	IS3.6-X1-H	IS4.6-X1-H	IS5-X1-H	IS6-X1-H	IS7.5-X1-H
System Data					
Normal AC Power (W)	3680	4600	5000	6000	7500
Max. Apparent AC Power (VA)	3680	4600	5500	6600	7500
Nominal AC Voltage (Input & Output, V)	230/240				
Grid Type	Single phase				
AC Grid Frequency	50 /60HZ				
Normal AC Output Current (A)	16	20	21.7	26.1	32.6
Max. AC Output Current (A)	16	20	23.9	28.7	32.6
Adjustable Displacement Power Factor	0.8 leading to 0.8 lagging				
Max. Inverter Efficiency	98.00%				
European Efficiency	97.00%				
Total Harmonic Distortion (THD, rated power)	<3%				
Over Voltage Category	IV (grid side) II (PV side)				
Protections	Integrated arc fault circuit interrupter (AFCI) Isolation Monitor Interrupter (IMI) PV Rapid Shutdown (RSD) DC Reverse Polarity Protection AC short circuit protection				
Communication Interfaces	RS485, CAN, WIFI & LAN / 4G (optional)				
Customer Interface	App				
Cooling	Natural convection				
PV Input					
Max. PV Input Power (W)	7360	9200	10000	12000	15000
Max. PV Input Voltage (V, DC)	550				
Start Input Voltage (V, DC)	120				
MPP Voltage Range (V, DC)	90 ~ 500				
DC Disconnection Switch	YES				
No.of MPPT Trackers	3 / 1				
Max. Current per MPPT (A)	16				
Max. Short Circuit Current per MPPT (A)	20				
Battery Data					
Battery Type	LFP(LiFePO4)				
Total Energy (kWh)	14.7				
Max. Continuous Charge/Discharge Power (W, AC)	3680	4600	5000	6000	7500
Max. Continuous Charge/Discharge Power (A)	40				
Environmental					
Operating Temperature Range	-20°C to 50°C				
Operating Humidity (RH)	Up to 100%, condensing				
Storage Temperature	-20°C to 30°C, up to 95% RH, non-condensing				
Max. Elevation	3000m				
Environment	Indoor and Outdoor rated				
Ingress Rating	IP65				
Typical Noise Emission	< 30 db(A) typical				
Mechanical					
Dimensions (W / H / D)	750*1250*150 mm				

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InverSync (AC coupled, EU model) Technical data

Model Number	IS3.6-X1-AC	IS4.6-X1-AC	IS5-X1-AC	IS6-X1-AC	IS7.5-X1-AC
System Data					
Norminal AC Power (W)	3680	4600	5000	6000	7500
Max. Apparent AC Power (VA)	3680	4600	5500	6600	7500
Nominal AC Voltage (Input & Output, V)	230/240				
Grid Type	Single phase				
AC Grid Frequency	50 /60Hz				
Norminal AC Output Current (A)	16	20	21.7	26.1	32.6
Max. AC Output Current (A)	16	20	23.9	28.7	32.6
Adjustable Displacement Power Factor	0.8 leading to 0.8 lagging				
Max. Inverter Efficiency	98.00%				
Total Harmonic Distortion (THD, rated power)	<3%				
Over Voltage Category	IV (electric supply side) II (PV side)				
Protections	Integrated arc fault circuit interrupter (AFCI) Isolation Monitor Interruption (IMI) PV Rapid Shutdown (RSD) DC Reverse Polarity Protection AC short circuit protection				
Communication Interfaces	RS485, CAN, WIFI & LAN / 4G (optional)				
Customer Interface	App				
Cooling	Natural convection				
Battery Data					
Battery Type	LFP(LiFePO4)				
Total Energy(kWh)	14.7				
Max. Continuous Charge/Discharge Power (W, AC)	3680	4600	5000	6000	7500
Max. Continuous Charge/Discharge Power (A)	40				
Environmental					
Operating Temperature Range	-20°C to 50°C				
Operating Humidity (RH)	Up to 100%, condensing				
Storage Temperature	-20°C to 30°C, up to 95% RH, non-condensing				
Max. Elevation	3000m				
Environment	Indoor and Outdoor rated				
Ingress Rating	IP65				
Typical Noise Emission	< 30 db(A) typical				
Mechanical					
Dimensions (W / H / D)	750*1250*150 mm				

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InverSync (Hybrid,US model)

Technical data

Model Number	IS3.8-H	IS4.8-H	IS5.8-H	IS7.6-H
System Data				
Norminal AC Power (W)	3840	4800	5760	7680
Max. Apparent AC Power (VA)	3840	4800	5760	7680
Nominal AC Voltage (Input & Output, V)	120/240			
Grid Type	Split phase			
AC Grid Frequency	60 Hz			
Max. Rated Output Current (A)	16	20	24	32
Breaker (Overcurrent protection)	20	25	30	40
Power Factor at Rated Power	0.8 leading to 0.8 lagging			
Max. Inverter Efficiency	98.00%			
CEC Weighted Efficiency	97.50%			
Total Harmonic Distortion (THD, rated power)	<3%			
Over Voltage Category	IV (grid side) II (PV side)			
Protections	Integrated arc fault circuit interrupter (AFCI) Isolation Monitor Interrupter (IMI) PV Rapid Shutdown (RSD) DC Reverse Polarity Protection AC short circuit protection			
Communication Interfaces	RS485, CAN, WIFI & LAN / 4G (optional)			
Customer Interface	App			
Cooling	Natural convection			
PV Input				
Max. PV Input Power (200% Oversizing)	7680	9500	12000	15360
Max. PV Input Voltage (V, DC)	550			
Start Input Voltage (V, DC)	120			
Rated MPP Voltage Range (V, DC)	90 ~ 500			
DC Disconnection Switch	YES			
No.of MPPT Trackers	3 / 1			
Max. Current per MPPT (Imp, A)	16			
Max. Short Circuit Current per MPPT (Isc, A)	20			
Battery Data				
Battery Type	LFP(LiFePO4)			
Total Energy (kWh)	14.7			
Max. Continuous Charge/Discharge Power (W, AC)	3840	4800	6000	7680
Max. Continuous Charge/Discharge Power (A)	40			
Environmental				
Operating Temperature Range	-4°F to 122°F			
Operating Humidity (RH)	Up to 100%, condensing			
Storage Temperature	-4°F to 86°F, up to 95% RH, non-condensing			
Max. Elevation	9843 ft			
Environment	Indoor and Outdoor rated			
Protection Class	NEMA 4X			
Ingress Rating	IP65			
Typical Noise Emission	< 30 db(A) typical			
Mechanical				
Dimensions (W / H / D)	750*1250*150 mm			

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InverSync (AC coupled, US model)

Technical data

Model Number	IS3.8-AC	IS4.8-AC	IS5.8-AC	IS7.6-AC
System Data				
Norminal AC Power (W)	3840	4800	5760	7680
Max. Apparent AC Power (VA)	3840	4800	5760	7680
Nominal AC Voltage (Input & Output, V)	120/240			
Grid Type	Split phase			
AC Grid Frequency	60 Hz			
Max. Rated Output Current (A)	16	20	24	32
Breaker (Overcurrent protection)	20	25	30	40
Power Factor at Rated Power	0.8 leading to 0.8 lagging			
Max. Inverter Efficiency	98.00%			
Total Harmonic Distortion (THD, rated power)	<3%			
Over Voltage Category	IV (electric supply side) II (PV side)			
Protections	Integrated arc fault circuit interrupter (AFCI) Isolation Monitor Interrupter (IMI) PV Rapid Shutdown (RSD) DC Reverse Polarity Protection AC short circuit protection			
Communication Interfaces	RS485, CAN, WIFI & LAN / 4G (optional)			
Customer Interface	App			
Cooling	Natural convection			
Battery Data				
Battery Type	LFP(LiFePO4)			
Total Energy(kWh)	14.7			
Max. Continuous Charge/Discharge Power (W, AC)	3840	4800	5760	7680
Max. Continuous Charge/Discharge Power (A)	40			
Environmental				
Operating Temperature Range	-4°F to 122°F			
Operating Humidity (RH)	Up to 100%, condensing			
Storage Temperature	-4°F to 86°F, up to 95% RH, non-condensing			
Max. Elevation	9843 ft			
Environment	Indoor and Outdoor rated			
Protection Class	NEMA 4X			
Ingress Rating	IP65			
Typical Nosie Emission	< 30 db(A) typical			
Mechanical				
Dimensions (W / H / D)	750*1250*150 mm			

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HomeSync Backup Box

Model Number		HSa	HSx
Performance			
AC Voltage (Nominal, V)		120/240	230/240
Grid Type		Split phase	Single phase
AC Frequency	60 Hz		50/60Hz
AC total Current Rating	160A 128A (BACK UP @ Off-Grid Without generator)		
Imbalance Compensation in Backup Operation (VA)	5000	-	
Split Phase Imbalance Output Current (A)	41.67	-	
Energy Meter	1% Accuracy		
Max. number of Inverter Inputs	4		
Input from Inverter Continuous Current	Up to 4 x 32A		
Inverter Input AC Circuit Breaker Upgradability	Up to 4 x 40A circuit breaker		
Max. GENERATOR Input Power (VA)	38400		
Max. Continuous GENERATOR Input Current (A)	160		
Auto Generator Start	Yes		
Communication Interfaces	RS485 / Dry Contact		
Environmental			
Operating Temperature	-4°F to 122°F (-20°C to 50°C)		
Operating Humidity (RH)	Up to 100%, condensing		
Max. Elevation	9843 ft (3000m)		
Environment	Indoor and Outdoor rated		
Enclosure Type	NEMA 3R		
Mechanical			
Dimensions (W / H / D)	450*710*150 mm		

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Separate-type Energy Storage System

Epoch Series



<10ms UPS level switch

providing emergency power when mains failure



Various Operation Mode

5 operation modes for diverse scenarios: **General Mode**, **UPS Mode**, **Economic Mode**, **Off-Grid Mode**, **Peak Shaving Mode**

Daytime



Nighttime



Real-time status display

Easy Wi-Fi configuration via APP

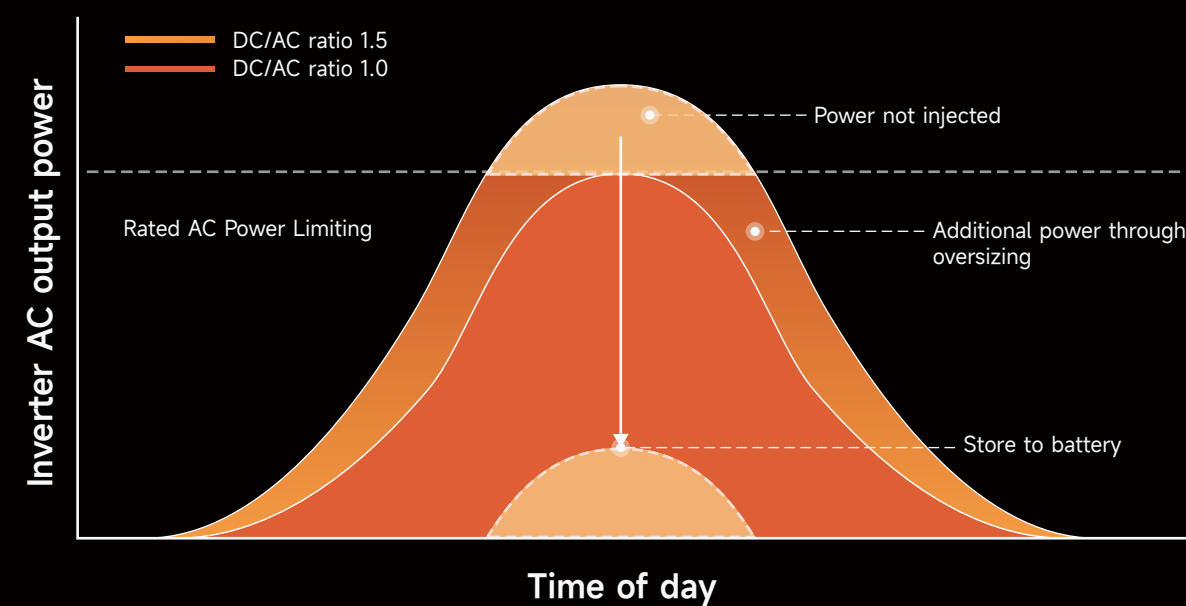
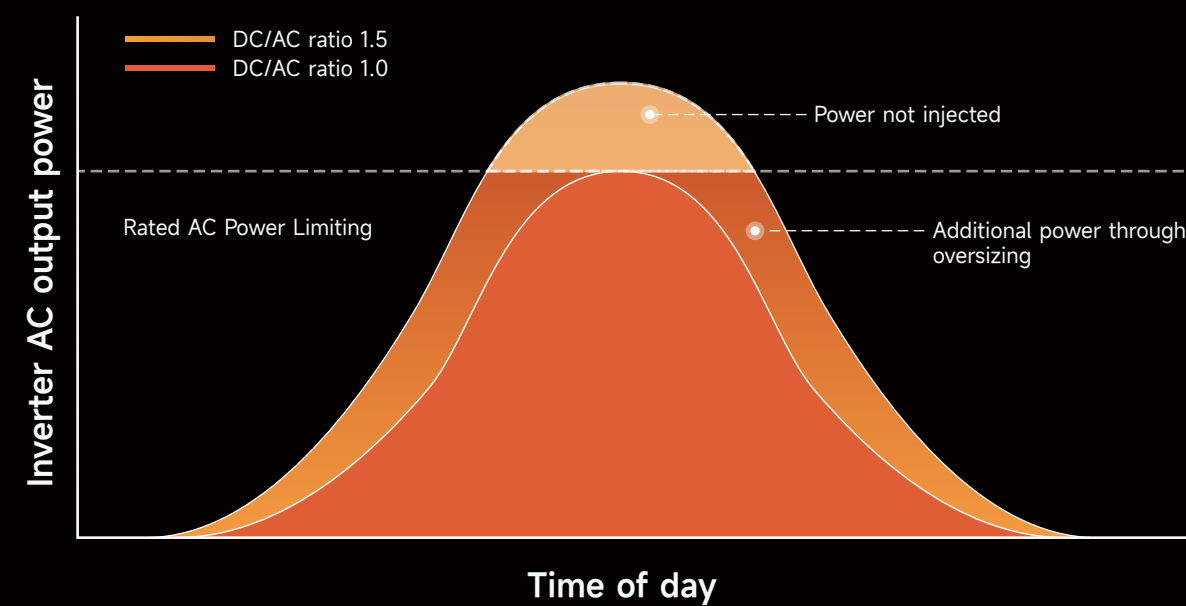


Support 7*24H monitoring

Remote diagnostic and system upgrade



150% DC Input Oversizing



Plug & Play installation

Patented concealed handle design



Single Phase

Hybrid Inverter



Intelligent Management

- Real-time status display;
- Easy Wi-Fi configuration via APP;
- Support 7*24H monitoring;
- Remote diagnostic and system upgrade



Quick & Simple Installation

- Plug & Play installation;
- Patented concealed handle design



Flexible Application

- Different operation modes in various scenarios;
- Max. 20kWh expansion;
- Support parallel connections



Safe & Efficient

- Dual MPPT design;
- 97.7% max. efficiency;
- IP65 rated design for outdoor use;
- Horizontal layout with advanced heat dissipation;
- Fan-less design, <30dB(A) noise

Epoch Series Technical data

Hybrid Inverter (single phase)	XPS3.6	XPS4.6	XPS5.0	XPS6.0
PV Input				
Max. DC Input Power (W)	5400	6900	7500	9000
Max. DC Input Voltage (V)	550			
MPPT Voltage Range (V)	80~500			
No. of MPP Trackers	2 (1/1)			
Max. Input Current per MPPT (A)	16/16			
Max. Short Circuit Current per MPPT (A)	20/20			
Battery Data				
Battery Type	Li-ion battery (LFP)			
Battery Voltage Range (V)	85~460			
Max.Charge/Discharge Current (A)	30/30			
Supported Battery Capacity	10kWh~20kWh			
Max.Charging/Discharging Power (W)	3680/3680	4600/4600	5000/5000	6000/6000
AC Input/Output (on-grid)				
Rated AC Output Power (W)	3680	4600	5000	6000
Max. AC Output Power(W)	4080 (3680 in UK)	5060 (4600 in Germany)	5500	6000
Max. AC Output Apparent Power (VA)	4080 (3680 in UK)	5060 (4600 in Germany)	5500	6000
Max. AC Input Apparent Power(VA)	7360	9200	10000	10000
Max. AC Input Current (A)	32.0	40.0	43.5	43.5
Rated AC Output Current (A)	16.0	20.0	21.7	26.1
Max. AC Output Current (A)	18.5 (16.0 in UK)	23.0	25.0	27.3
Rated AC Voltage (V) & Frequency (Hz)	L/N/PE, 220;230;240, 50/60			
AC Frequency Range (Hz)	45~55 Hz / 55~65 Hz			
Power Factor	> 0.99 @full-load power (0.8 leading - 0.8 lagging, adjustable)			
THDI	<3% @ Rated Power			
AC Output (off-grid)				
Rated AC Output Power (W)	3680	4600	5000	6000
Max. Apparent Power (VA)	4080	5060	5500	6000
Peak Output Apparent Power (VA)	4780, 60s	6000, 60s	6500, 60s	7800, 60s
Rated Output Current (A)	16.0	20.0	21.7	26.1
Max. Output Current (A)	18.5	23.0	25.0	27.3
EPS Switch Time	<10ms			
Rated Output Voltage (V) & Frequency (Hz)	L/N/PE, 220;230;240, 50/60			
THDV	<2% @Rated Power, resistive load			
Efficiency				
Max. PV Efficiency	97.6%	97.7%	97.7%	97.7%
European Efficiency	97.0%	97.1%	97.1%	97.1%
General Data				
Dimensions (W*H*D)	525x425x204mm			
Net Weight	25kg			
Ingress Protection Rating	IP65			
Topology	Non-isolated			
Operating Temperature Range	-30°C ~ 60°C			
Relative Humidity	0 ~ 100%			
Cooling Method	Natural Cooling			
Max. Operating Altitude	3000m			
Noise	<30dB			
Communication	CAN, RS485, RS232, DRM, WiFi			

Three Phase

Hybrid Inverter



Intelligent Management

- Real-time status display;
- Easy Wi-Fi configuration via APP;
- Support 7*24H monitoring;
- Remote diagnostic and system upgrade



Quick & Simple Installation

- Plug & Play installation;
- Patented concealed handle design



Flexible Application

- Different operation modes in various scenarios;
- Wide MPPT voltage range (180-900V);
- Max. 30kWh expansion;
- Support parallel connections



Safe & Efficient

- Dual MPPT design;
- 98.2% max. efficiency;
- IP65 rated design for outdoor use;
- Horizontal layout with advanced heat dissipation;
- Fan-less design, <30dB(A) noise

Epoch Series

Technical data

Hybrid Inverter (three phase)	XPT5.5	XPT7.5	XPT9.0	XPT10.0	XPT12.0
PV Input					
Max. DC Input Power (W)	8250	11250	13500	15000	18000
Max. DC Input Voltage (V)	1000				
MPPT Voltage Range (V)	180~900				
No. of MPP Trackers	2 (1/1)				
Max. Input Current per MPPT (A)	16/16				
Max. Short Circuit Current per MPPT (A)	20/20				
Battery Data					
Battery Type	Li-ion battery (LFP)				
Battery Voltage Range (V)	170~750				
Number of Connectable Batteries	1				
Max.Charge/Discharge Current (A)	25/25				
Supported Battery Capacity	10kWh~30kWh				
Max.Charging/Discharging Power (W)	5500/5500	7500/7500	9000/9000	10000/10000	12000/ 12000
AC Input/Output (on-grid)					
Rated AC Output Power (W)	5500	7500	9000	10000	12000
Max. AC Output Power(W)	6000	8200	9900	11000	12000
Max. AC Output Apparent Power (VA)	6000	8200	9900	11000	12000
Max. AC Input Apparent Power(VA)	11000	15000	18000	20000	20000
Max. AC Input Current (A)	15.9	21.7	26.1	29.0	29.0
Rated AC Output Current (A)	8.0	10.9	13.0	14.5	17.4
Max. AC Output Current (A)	9.1	12.4	15.0	16.7	18.2
Rated AC Voltage (V) & Frequency (Hz)	3L/N/PE,220/380;230/400,240/415,50/60				
AC Frequency Range (Hz)	45~55 Hz / 55~65 Hz				
Power Factor	> 0.99 @full-load power (0.8 leading - 0.8 lagging, adjustable)				
THDI	<3% @ Rated Power				
AC Output (off-grid)					
Rated AC Output Power (W)	5500	7500	9000	10000	12000
Max. Apparent Power (VA)	6000	8200	9900	11000	12000
Peak Output Apparent Power (VA)	11000, 60s	15000, 60s	18000, 60s	20000, 60s	20000, 60s
Rated Output Current (A)	8.0	10.9	13.0	14.5	17.4
Max. Output Current (A)	9.1	12.4	15.0	16.7	18.2
EPS Switch Time	<10ms				
Rated Output Voltage (V) & Frequency (Hz)	3L/N/PE,220/380;230/240/415400,240/415,50/60				
THDV	<2% @Rated Power, resistive load				
Efficiency					
Max. PV Efficiency	98.0%	98.0%	98.0%	98.2%	98.2%
European Efficiency	97.5%	97.5%	97.5%	97.7%	97.7%
General Data					
Dimensions (W*H*D)	525x425x204mm				
Net Weight	32kg				
Ingress Protection Rating	IP65				
Topology	Non-isolated				
Operating Temperature Range	-30°C ~ 60°C				
Relative Humidity	0 ~ 100%				
Cooling Method	Natural Cooling				
Max. Operating Altitude	3000m				
Noise	<30dB				
Communication	CAN, RS485, RS232, DRM, WiFi				

Battery Storage System

High Voltage



Epoch Series Technical data

Battery System (high voltage)	BS10	BS15	BS20	BS25	BS30
Battery Specification					
Nominal Energy (kWh)	10.24	15.36	20.48	25.60	30.72
Usable Energy (kWh)	9.2	13.8	18.4	23.0	27.6
Module Parameter	50Ah 661*330*228mm 46kg				
Cell Type	LFP (LiFePO4)				
Max. Module Configuration	2	3	4	5	6
Nominal Voltage (V)	204.8	307.2	409.6	512.0	614.4
Operating Voltage Range (V)	182.4~230.4	273.6~345.6	364.8~460.8	456~576	547.2~691.2
Max. Continuous Charge/Discharge Current (A)	25A				
Communication	CAN, RS485				
Weight (kg)	115	161	207	253	299
Dimensions (W*D*H) (mm)	661*330*655	661*330*838	661*330*1021	661*330*1204	661*330*1387
Operating Temperature (°C)	Charge: -10~50/Discharge: -20~50				
Storage Temperature (°C)	0~45(Recommended)				
Humidity	0~95%				
Altitude (m)	≤2000				
Enclosure Type	IP55 (indoor/outdoor)				
Cooling	Natural convection				
Installation Location	Floor-standing				
Display	SOC indicator, Status indicator				

Max. continuous current/power derating will occur related to temperature/SOC/Humidity;

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Modular Design For Easy Installation

- Patented concealed handle design, pratical and beautiful combination;
- Plug and play, no wiring harness required



High Safety & Long Life

- 6000 times cycle life;
- Unit-level fault detection and isolation (FDI);
- Double insulated protection



Intelligence & Flexibility

- Remote software upgrade;
- Real-time data monitoring;
- Support 2-6 modules per unit, 10~30kWh capacity range