

Residential Energy Storage Solution



Enjoy Green Life



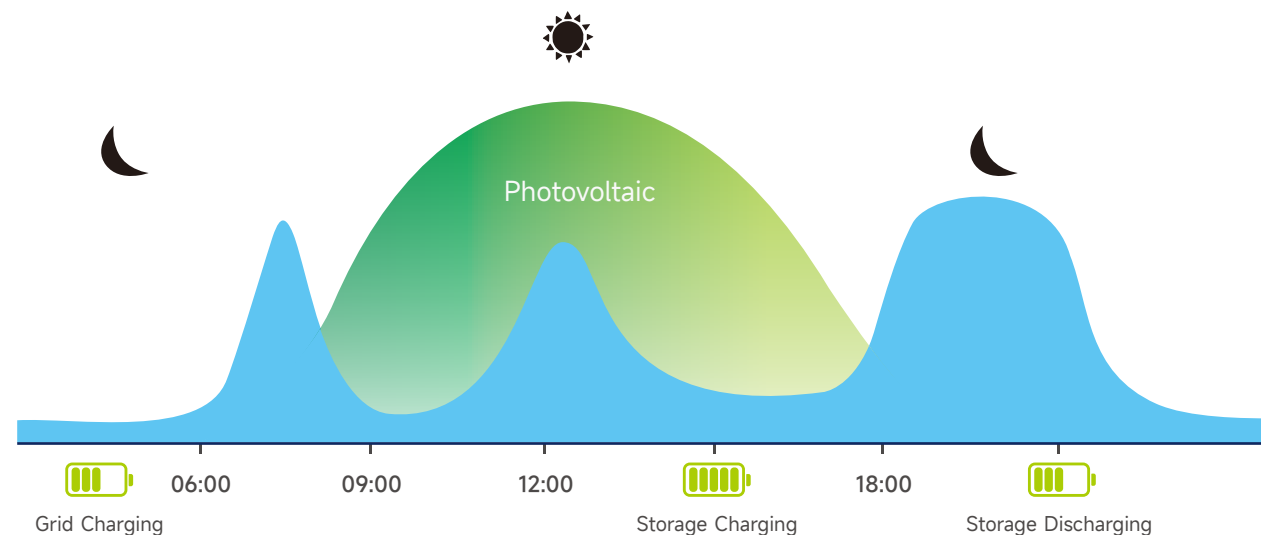
PV power generation covers daytime electricity consumption



Energy storage power covers nighttime electricity consumption



Ensure the normal operation of key household appliances during power outages



Solution Highlight

Green Energy >>

- Integrated PV & storage system
- Smart residential energy management

Ultimate Safety >>

- Cell level safety monitoring
- Ensure battery health and safety

Free Switch >>

- Real time power consumption confirm
- Free switch of power consumption mode

Efficient and Flexible >>

- Convenient installation
- High system installation efficiency



HYBRID INVERTER

FX-H3K/3K6/4K/4K6/5K/6K/8K-HS

Reliable

- Type II surge protection
- IP65,C4 salt spray design
- Support AFCI and RSD, ultimate peace of mind

Efficient

- 160% PV oversizing, 150% backup turbo output
- 80-490V wide battery voltage range, 35A fast charge/discharge
- 16A PV current wide adaptation

Simple

- 30mins quick installation
- Easy working mode, set and forget
- Automatic ON/OFF-Grid switching time <10ms

Intelligent

- Smart working logic
- Generator&heat pump control
- Mobile & PC platform management

Product Model	FX-H3K-HS	FX-H3K6-HS	FX-H4K-HS	FX-H4K6-HS	FX-H5K-HS	FX-H6K-HS	FX-H8K-HS
PV Input							
Max. Array Power	6,000W	7,200W	8,000W	9,200W	10,000W	12,000W	1,6000W
Max. Input Power	3,000W / 1,800W	3,600W / 2,160W	4,000W / 2,400W	4,600W / 2,760W	5,000W / 3,000W	5,000W / 4,600W	6,400W / 6,400W
Max. Input Voltage	600V						
Start-up Voltage	50V						
Mppt Operating Voltage Range	80 - 560V						
Max. Input Current	32A (16 / 16)						
Max. Short-circuit Current	48A (24 / 24)						
Number of MPP Trackers	2						
PV input number(Number of String Per MPPT)	2 (1 / 1)						
AC Input / Output							
Nominal Power	3,000W	3,600W	4,000W	4,600W	5,000W	6,000W	8,000W
Max. Apparent Power	3,300VA	4,000VA	4,400VA	5,060VA	5,500VA	6,600VA	8,800VA
Nominal Current	13.6A	16.3A	18.1A	20.9A	22.7A	27.2A	36.3A
Max. Current	15.0A	18.0A	20.0A	23.0A	25.0A	30.0A	40.0A
Nominal Voltage	1 / N / PE, 220 / 230 / 240V						
AC Voltage Range	154 ~ 276V						
THDi	< 3%						
Frequency	50 / 45-55Hz; 60 / 55-65Hz						
Adjustable Power Factor	0.8 leading...0.8 lagging						
DC Current Injection	< 0.5% In						
Back-Up(AC Output)							
Nominal Output Power	3,000VA	3,600VA	4,000VA	4,600VA	5,000VA	6,000VA	8,000VA
Max. Continues Output Apparent Power	3,300VA	4,000VA	4,400VA	5,060VA	5,500VA	6,600VA	8,000VA
Peak Output Power	4,500W; 10s	5,400W; 10s	6,000W; 10s	6,900W; 10s	7,500W; 10s	9,000W; 10s	9600W; 10s
Max. Output Current	15.0A	18.0A	20.0A	23.0A	25.0A	30.0A	36.3A
Switch Time	< 10ms						
Battery							
Battery Type	LiFePO4						
Battery Voltage Range	80 ~ 490V						
Max. Charge/Discharge Current	35A						
Max. Charge/Discharge Power	8,000W						
Efficiency							
Max. Efficiency	98.60%						
European Weighted Efficiency	98.20%						
MPPT Efficiency	99.90%						
Battery Charge/ Discharge Efficiency	97.50%						
Protection							
DC Insulation Resistance Detection	Yes						
Residual Current Monitoring	Yes						
DC Reverse Polarity Protection	Yes						
DC/AC Surge Protection	Type II						
DC Switch	Yes						
Anti-islanding Protection	Yes						
AC Over Current Protection	Yes						
AC Short-circuit Protection	Yes						
AC Over Voltage Protection	Yes						
Grounded Fault Detection	Yes						
General Data							
Operating Temperature Range	-25 to + 60°C						
Relative Operating Humidity	0 - 100 %RH						
Max. Operating Altitude	4,000m						
Cooling	Natural Cooling						
Display	LED / App / Web						
Communication	CAN / RS485 / WIFI / 4G / LAN						
Weight	20kg						
Dimensions (W*H*D)	522*416*177.6mm						
Degree of Protection	IP65						
Mounting	Wall Mounted						



HYBRID INVERTER

FX-H5K/6K/8K/10K/12K-HT

Reliable

- Type II surge protection
- IP65,C4 salt spray design
- Support AFCI and RSD, ultimate peace of mind

Efficient

- 160% PV oversizing + 150% backup turbo output
- 150~600V wide battery voltage range, 40A fast charge/discharge
- 18A PV current wide adaptation

Simple

- 30mins quick installation
- Easy working mode, set and forget
- Automatic ON/OFF-Grid switching time <10ms

Intelligent

- Smart working logic
- Generator & heat pump control
- Mobile & PC platform management

Product Model	FX-H5K-HT	FX-H6K-HT	FX-H8K-HT	FX-H10K-HT	FX-H12K-HT
PV Input					
Max. Array Power	10,000W	12,000W	16,000W	20,000W	24,000W
Max. Input Power	5,000W / 3,000W	6,000W / 4,000W	6,400W / 6,400W	6,400W / 4,800W / 4,800W	6,400W / 6,400W / 6,400W
Max. Input Voltage	1,000V				
Start-up Voltage	160V				
MPPT Operating Voltage Range	140 - 980V				
Max. Input Current	36A (18 / 18)	36A (18 / 18)	36A (18 / 18)	54A (18 / 18*2)	54A (18 / 18*2)
Max. Short-circuit Current	60A (30 / 30)	60A (30 / 30)	60A (30 / 30)	90A (30 / 30*2)	90A (30 / 30*2)
Number of MPP Trackers	2				
PV input number(Number of String Per MPPT)	2 (1 / 1)	2 (1 / 1)	2 (1 / 1)	3 (1 / 2)	3 (1 / 2)
AC Input / Output					
Nominal Output Power	5,000W	6,000W	8,000W	10,000W	12,000W
Max. Output Apparent Power	5,500VA	6,600VA	8,800VA	11,000VA	13,200VA
Max. Input Apparent Power	11,000VA	13,200VA	17,600VA	22,000VA	26,400VA
Nominal Output Current	7.6A	9.1A	12.2A	15.2A	18.2A
Max. Output Current	8.4A	10A	13.4A	16.7A	20A
Max. Input Current	16.7A	20A	26.7A	33.4A	40A
Nominal Output Voltage	3 / N / PE, 220 / 380V, 230 / 400V, 240 / 415V				
THDi	< 3%				
Frequency	45~55Hz; 55~65Hz				
Adjustable Power Factor	0.8 leading...0.8 lagging				
DC Current Injection	< 0.5% In				
Back-Up(AC Output)					
Nominal Output Power	5,000VA	6,000VA	8,000VA	10,000VA	12,000VA
Max. Continues Output Apparent Power	5,500VA	6,600VA	8,800VA	11,000VA	13,200VA
Peak Output Power	7,500W; 10s	9,000W; 10s	12,000W; 10s	15,000W; 10s	15,000W; 10s
Nominal Output Current	7.6A	9.1A	12.2A	15.2A	18.2A
Max. Output Current	11.4A	13.7A	18.2A	22.8A	27.3A
Switch Time	< 10ms				
Battery					
Battery Type	LiFePO4				
Battery Voltage Range	150 - 600V				
Max. Charge/Discharge Current	40A				
Max. Charge/Discharge Power	5,500W	6,600W	8,800W	11,000W	13,200W
Efficiency					
Max. Efficiency	98.60%				
European Weighted Efficiency	98.20%				
MPPT Efficiency	99.90%				
Battery Charge/ Discharge Efficiency	97.50%				
Protection					
DC Insulation Resistance Detection	Yes				
Residual Current Monitoring	Yes				
DC Reverse Polarity Protection	Yes				
DC/AC Surge Protection	Type II				
DC Switch	Yes				
Anti-islanding Protection	Yes				
AC Over Current Protection	Yes				
AC Short-circuit Protection	Yes				
AC Over Voltage Protection	Yes				
Grounded Fault Detection	Yes				
General Data					
Operating Temperature Range	-30 to + 60°C				
Relative Operating Humidity	0 - 100 %RH				
Max. Operating Altitude	4,000m				
Cooling	Natural Cooling				
Display	LED / App / Web				
Communication	CAN / RS485 / WIFI / 4G / LAN				
Weight	34kg				
Dimensions (W*H*D)	542*478*186mm				
Degree of Protection	IP65				
Mounting	Wall Mounted				



HYBRID INVERTER

FX-H15K/20K/25K-HT

Reliable

- Type II surge protection
- IP65,C4 salt spray design
- Support AFCI and RSD, ultimate peace of mind

Efficient

- 160% PV oversizing, 150% backup turbo output
- 150~600V wide battery voltage range, 60A fast charge/discharge
- 20A PV current wide adaptation

Simple

- 30mins quick installation
- Easy working mode, set and forget
- Automatic ON/OFF-Grid switching time <10ms

Intelligent

- Smart working logic
- Generator & heat pump control
- Mobile & PC platform management

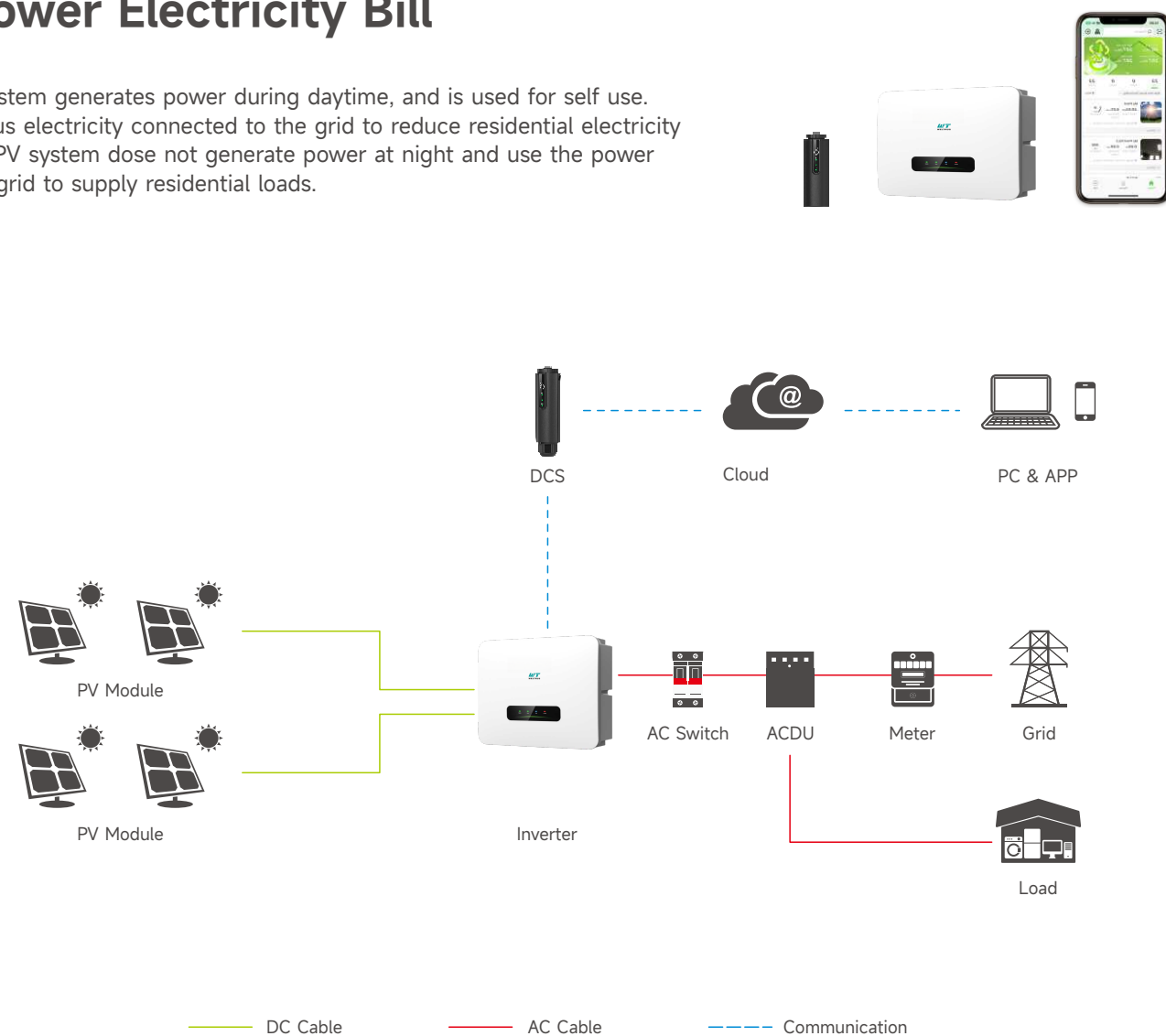
Product Model	FX-H15K-HT	FX-H20K-HT	FX-H25K-HT
PV Input			
Max. Array Power	30,000W	40,000W	50,000W
Max. Input Power	6,000W / 6,000W / 6,000W / 6,000W	8,000W / 8,000W / 8,000W / 8,000W	10,000W / 10,000W / 10,000W / 10,000W
Max. Input Voltage	1,100V		
Start-up Voltage	160V		
MPPT Operating Voltage Range	140 - 1,000V		
Max. Input Current	80A (20*2 / 20*2)		
Max. Short-circuit Current	120A (30*2 / 30*2)		
Number of MPP Trackers	2		
PV input number (Number of String Per MPPT)	4 (2 / 2)		
AC Input / Output			
Nominal Input / Output Apparent Power	31,500VA / 15,000VA	42,000VA / 20,000VA	52,500VA / 25,000VA
Max. Input / Output Apparent Power	33,000VA / 16,500VA	44,000VA / 22,000VA	55,000VA / 27,500VA
Nominal Input / Output Current	47.8A / 22.8A	63.7A / 30.4A	79.5A / 37.9A
Max. Input / Output Current	50.0A / 25.0A	66.7A / 33.4A	83.4A / 41.7A
Nominal Output Voltage	3 / N / PE, 220 / 380V, 230 / 400V, 240 / 415V		
THDi	< 3%		
Output Voltage Range	304 - 476V		
Frequency	50 / 60Hz		
Adjustable Power Factor	0.8 leading...0.8 lagging		
DC Current Injection	< 0.5% In		
Back-Up(AC Output)			
Nominal Output Power	15,000W	20,000W	25,000W
Max. Continues Output Apparent Power	16,500VA	22,000VA	27,500VA
Peak Output Power	22,500W; 10s	30,000W; 10s	30,000W; 10s
Nominal Output Current	22.8A	30.4A	37.9A
Max. Output Current	34.1A	45.5A	56.9A
Switch Time	< 10ms		
Battery			
Battery Type	LiFePO4		
Battery Voltage Range	150 ~ 600V		
Max. Charge/Discharge Current	60A		
Max. Charge Power	16,500W	22,000W	27,500W
Max. Discharge Power	15,000W	20,000W	25,000W
Efficiency			
Max. Efficiency	98.60%		
European Weighted Efficiency	98.20%		
MPPT Efficiency	99.90%		
Battery Charge/ Discharge Efficiency	97.70%		
Protection			
DC Insulation Resistance Detection	Yes		
Residual Current Monitoring	Yes		
DC Reverse Polarity Protection	Yes		
DC/AC Surge Protection	Type II		
DC Switch	Yes		
Anti-islanding Protection	Yes		
AC Over Current Protection	Yes		
AC Short-circuit Protection	Yes		
AC Over Voltage Protection	Yes		
Grounded Fault Detection	Yes		
General Data			
Operating Temperature Range	-30 to + 60°C		
Relative Operating Humidity	0 - 100 %RH		
Max. Operating Altitude	4,000m		
Cooling	Natural Cooling	Fan Cooling	Fan Cooling
Display	LED / App / Web		
Communication	CAN / RS485 / PLC / WIFI / 4G / LAN		
Weight	45kg		
Dimensions (W*H*D)	650*500*250mm		
Degree of Protection	IP65		
Mounting	Wall Mounted		

Residential String PV Solution



Lower Electricity Bill

PV system generates power during daytime, and is used for self use. Surplus electricity connected to the grid to reduce residential electricity bills. PV system dose not generate power at night and use the power from grid to supply residential loads.



Solution Highlight

High Efficiency >>

- 18A high current input
- 98.2% high conversion efficiency

Ultimate Safety >>

- Type II SPD
- Higher protection standards

Efficient & Convenient >>

- Support IV curve diagnosis
- More efficient and convenient maintenance

Intelligent Simple O&M >>

- Smart cloud platform
- Real time monitoring of power generation status





STRING INVERTER

FX-S3K/3K6/4K/4K6/5K/6K-S

Reliable

- Type II surge protection
- 200m detection distance of AFCI, shutdown within 0.5 second at fastest
- IP66, suitable for harsh installation environment

Efficient

- 160% DC oversizing, wide MPPT voltage range
- 98.2% conversion efficiency
- 18A high current, compatible with major module types

Simple

- Minimalist and stylish product design
- Three-step quick installation
- Rapid APP configuration, efficient and convenient

Intelligent

- APP intelligent O&M, all-weather power station management
- Visual display, energy gain and data updated in real time
- Intelligent IV curve diagnosis, fast debugging

Product Model	FX-S3K-S	FX-S3K6-S	FX-S4K-S	FX-S4K6-S	FX-S5K-S	FX-S6K-S
PV Input						
Max. Input Power	4,800W	5,760W	6,400W	7,360W	8,000W	9,600W
Max. Input Voltage	600V					
Nominal Input Voltage	360V					
Start-up Voltage	100V					
MPPT Operating Voltage Range	80 - 560V					
MPPT Full Load Voltage Range	200 - 500V					
Max. Input Current Per MPPT	18A					
Max. Short-Circuit Current	24A					
Number of MPP Trackers	2					
Max. Input Number Per MPP Tracker	1 / 1					
AC Output						
Nominal Output Power	3,000W	3,600W	4,000W	4,600W	5,000W	6,000W
Max. Apparent Power	3,300VA	3,960VA	4,400VA	5,060VA	5,500VA	6,600VA
Nominal Output Voltage	1 / N / PE, 220V / 230V / 240V					
Nominal AC Grid Frequency	50 / 60Hz					
Nominal Output Current	13.6A	16.4A	18.2A	20.9A	22.7A	27.3A
Max. Output Current	15.0A	18.0A	20.0A	23.0A	25.0A	30.0A
Adjustable Power Factor	0.8 leading...0.8 lagging					
THDi	< 3%					
Efficiency						
Max. Efficiency	98.2%					
European Weighted Efficiency	97.6%					
MPPT Efficiency	99.9%					
Protection						
Active Anti-islanding Protection	General Electric Frequency Shift					
Residual Current Monitoring	Yes					
DC Reverse Polarity Protection	Yes					
DC Switch	Yes					
AC Short-circuit Protection	Yes					
AC Overvoltage Protection	Yes					
AC Overcurrent Protection	Yes					
DC Surge Protection	Type II					
AC Surge Protection	Type II					
Ground Fault Detection	Yes					
AFCI	Yes					
General Data						
Operating Temperature Range	-25 to + 60°C					
Relative Operating Humidity	0 - 100 %RH					
Operating Altitude	4,000m					
Cooling	Natural Cooling					
Display	LED+App					
Communication	RS485 / 4G / WIFI					
Weight	11.6kg					
Dimensions (W*H*D)	340*360*136mm					
Topology	Non-Isolated					
Degree of Protection	IP66					
Overvoltage Level	PV II / AC III					



STRING INVERTER

FX-S7K/8K/9K/10K/12K-S

Reliable

- Type II surge protection
- 200m detection distance of AFCI, shutdown within 0.5 second at fastest
- IP66, suitable for harsh installation environment

Efficient

- 160% DC oversizing, wide MPPT voltage range
- 98.3% conversion efficiency
- 20A large current, compatible with major module types

Simple

- Minimalist and stylish product design
- Three-step quick installation
- Rapid APP configuration, efficient and convenient

Intelligent

- APP intelligent O&M, all-weather power station management
- Visual display, energy gain and data updated in real time
- Intelligent IV curve diagnosis, fast debugging

Product Model	FX-S7K-S	FX-S8K-S	FX-S9K-S	FX-S10K-S	FX-S12K-S
PV Input					
Max. Input Power	11,200W	12,800W	14,400W	16,000W	19,200W
Max. Input Voltage	600V				
Nominal Input Voltage	360V				
Start-up Voltage	80V				
MPPT Operating Voltage Range	40 - 560V				
MPPT Full Load Voltage Range	200 - 500V				
Max. Input Current Per MPPT	20A / 20A	20A / 20A	20A / 20A / 20A	20A / 20A / 20A	20A / 20A / 20A
Max. Short-Circuit Current	24A / 24A	24A / 24A	24A / 24A / 24A	24A / 24A / 24A	24A / 24A / 24A
Number of MPP Trackers	2	2	3	3	3
Max. Input Number Per MPP Tracker	1 / 1	1 / 1	1 / 1 / 1	1 / 1 / 1	1 / 1 / 1
AC Output					
Nominal Output Power	7,000W	8,000W	9,000W	10,000W	12,000W
Max. Apparent Power	7,700VA	8,800VA	9,900VA	11,000VA	13,200VA
Nominal Output Voltage	1 / N / PE, 220 / 230 / 240V				
Nominal AC Grid Frequency	50 / 60Hz				
Nominal Output Current	31.8A / 220V 30.4A / 230V 29.2A / 240V	36.4A / 220V 34.8A / 230V 33.3A / 240V	40.9A / 220V 39.1A / 230V 37.5A / 240V	45.5A / 220V 43.5A / 230V 41.7A / 240V	54.5A / 220V 52.2A / 230V 50A / 240V
Max. Output Current	35A / 220V 33.4A / 230V 32.1A / 240V	40A / 220V 38.3A / 230V 36.7A / 240V	45A / 220V 43A / 230V 41.3A / 240V	50A / 220V 47.9A / 230V 45.8A / 240V	60A / 220V 57.42A / 230V 55A / 240V
Adjustable Power Factor	0.8 leading...0.8 lagging				
THDi	< 3%				
Efficiency					
Max. Efficiency	98.3%				
European Weighted Efficiency	97.6%				
MPPT Efficiency	99.9%				
Protection					
Active Anti-islanding Protection	General Electric Frequency Shift				
Residual Current Monitoring	Yes				
DC Reverse Polarity Protection	Yes				
DC Switch	Yes				
AC Short-circuit Protection	Yes				
AC Overvoltage Protection	Yes				
AC Overcurrent Protection	Yes				
DC Surge Protection	Type II				
AC Surge Protection	Type II				
Ground Fault Detection	Yes				
AFCI	Yes				
General Data					
Operating Temperature Range	-30 to + 60°C				
Relative Operating Humidity	0 - 100 %RH				
Operating Altitude	4,000m				
Cooling	Natural Cooling				
Display	LED+App				
Communication	RS485 / 4G / WIFI				
Weight	23kg				
Dimensions (W*H*D)	522*416*162.5mm				
Topology	Non-Isolated				
Degree of Protection	IP66				
Overvoltage Level	PV II / AC III				
Optimizer Model	FX-OP700				



STRING INVERTER

FX-S8K/10K/12K-T

Reliable

- Type II surge protection
- 200m detection distance of AFCI, shutdown within 0.5 second at fastest
- IP66, suitable for harsh installation environment

Efficient

- 160% DC oversizing, 98.5% conversion efficiency, wide MPPT voltage range
- Support PLC communication and adapt to optimizer
- 18A large current, compatible with major module types

Simple

- Minimalist and stylish product design
- Three-step quick installation
- Rapid APP configuration, efficient and convenient

Intelligent

- APP intelligent O&M, all-weather power station management
- Visual display, energy gain and data updated in real time
- Intelligent IV curve diagnosis, fast debugging

Product Model	FX-S8K-T	FX-S10K-T	FX-S12K-T
PV Input			
Max. Input Power	12,800W	16,000W	19,200W
Max. Input Voltage		1,100V	
Nominal Input Voltage		600V	
Start-up Voltage		160V	
MPPT Operating Voltage Range		140 - 1000V	
MPPT Full Load Voltage Range		330 - 850V	
Max. Input Current Per MPPT		18A	
Max. Short-Circuit Current		24A	
Number of MPP Trackers		2	
Max. Input Number Per MPP Tracker		1 / 1	
AC Output			
Nominal Output Power	8,000W	10,000W	12,000W
Max. Apparent Power	8,800VA	11,000VA	13,200VA
Nominal Output Voltage	3L / N / PE, 220 / 380V, 230 / 400V		
Nominal AC Grid Frequency	50 / 60Hz		
Nominal Output Current	12.2A / 380V 11.5A / 400V	15.2A / 380V 14.4A / 400V	18.2A / 380V 17.3A / 400V
Max. Output Current	13.5A / 380V 12.7A / 400V	16.9A / 380V 15.8A / 400V	20.1A / 380V 19.1A / 400V
Adjustable Power Factor	0.8 leading...0.8 lagging		
THDi	< 3%		
Efficiency			
Max. Efficiency	98.5%		
European Weighted Efficiency	98.1%		
MPPT Efficiency	99.9%		
Protection			
Active Anti-islanding Protection	General Electric Frequency Shift		
Residual Current Monitoring	Yes		
DC Reverse Polarity Protection	Yes		
DC Switch	Yes		
AC Short-circuit Protection	Yes		
AC Overvoltage Protection	Yes		
AC Overcurrent Protection	Yes		
DC Surge Protection	Type II		
AC Surge Protection	Type II		
Ground Fault Detection	Yes		
AFCI	Yes		
General Data			
Operating Temperature Range	-30 to + 60°C		
Relative Operating Humidity	0 - 100 %RH		
Operating Altitude	4,000m		
Cooling	Smart Air Cooling		
Display	LED+App		
Communication	RS485 / 4G / WIFI		
Weight	21kg		
Dimensions (W*H*D)	522*416*162.5mm		
Topology	Non-Isolated		
Degree of Protection	IP66		
Overvoltage Level	PV II / AC III		
Optimizer Model	FX-OP700		

STRING INVERTER

FX-S15K/17K/20K/25K-T

Reliable

- Type II surge protection
- 200m detection distance of AFCI, shutdown within 0.5 second at fastest
- IP66, suitable for harsh installation environment

Efficient

- 160% DC oversizing, 98.5% conversion efficiency, wide MPPT voltage range
- Support PLC communication and adapt to optimizer
- 40A large current, compatible with major module types

Simple

- Minimalist and stylish product design
- Three-step quick installation
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Intelligent

- APP intelligent O&M, all-weather power station management
- Visual display, energy gain and data updated in real time
- Intelligent IV curve diagnosis, fast debugging



Product Model	FX-S15K-T	FX-S17K-T	FX-S20K-T	FX-S25K-T
PV Input				
Max. Input Power	24,000W	27,200W	32,000W	40,000W
Max. Input Voltage			1,100V	
Nominal Input Voltage			600V	
Start-up Voltage			160V	
MPPT Operating Voltage Range	192 - 850V	215 - 850V	250 - 850V	315 - 850V
MPPT Full Load Voltage Range			313 - 850V	
Max. Input Current Per MPPT			40A	
Max. Input Current Per String			20A	
Max. Short-Circuit Current			50A	
Number of MPP Trackers			2	
Max. Input Number Per MPP Tracker			2 / 2	
AC Output				
Nominal Output Power	15,000W	17,000W	20,000W	25,000W
Max. Apparent Power	16,500VA	18,700VA	22,000VA	27,500VA
Nominal Output Voltage			3L / N / PE, 220 / 380V, 230 / 400V	
Nominal AC Grid Frequency			50 / 60Hz	
Nominal Output Current	22.8A / 380V 21.7A / 400V	25.8A / 380V 24.5A / 400V	30.4A / 380V 28.9A / 400V	38.0A / 380V 36.1A / 400V
Max. Output Current	25.2A / 380V 23.9A / 400V	28.6A / 380V 27.1A / 400V	33.6A / 380V 31.9A / 400V	42.0A / 380V 39.9A / 400V
Adjustable Power Factor			0.8 leading...0.8 lagging	
THDi			< 3%	
Efficiency				
Max. Efficiency			98.5%	
European Weighted Efficiency			98.2%	
MPPT Efficiency			99.9%	
Protection				
Active Anti-islanding Protection			General Electric Frequency Shift	
Residual Current Monitoring			Yes	
DC Reverse Polarity Protection			Yes	
DC Switch			Yes	
AC Short-circuit Protection			Yes	
AC Overvoltage Protection			Yes	
AC Overcurrent Protection			Yes	
DC Surge Protection			Type II	
AC Surge Protection			Type II	
Ground Fault Detection			Yes	
AFCI			Yes	
PID recovery			Optional	
General Data				
Operating Temperature Range			-30 to + 60°C	
Relative Operating Humidity			0 ~ 100 %RH	
Operating Altitude			4,000m	
Cooling			Smart Air Cooling	
Display			WLAN+App	
Communication			RS485 / 4G / WIFI	
Weight			27kg	
Dimensions (W*H*D)			519*426*192mm	
Topology			Non-Isolated	
Degree of Protection			IP66	
Overvoltage Level			PV II / AC III	
Optimizer Model			FX-OP700	

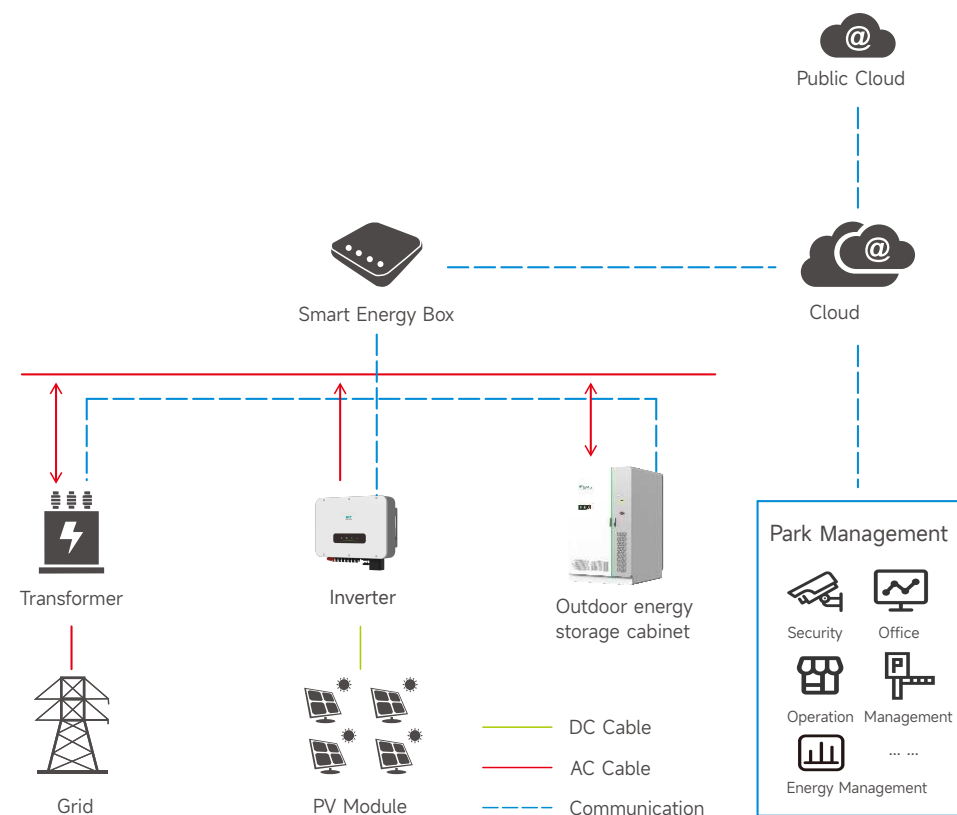
C&I PV, ESS Solution



More Yields and Easier O&M

During the day, the PV power generation is self-consumed, store the excess power in the energy storage cabinet, Storage cabinet/grid provides power at night to achieve peak shaving and save electricity.

It is suitable for regions with large peak and valley price difference for PV, ESS scenarios such as Manufacturing firm, campus, school, etc.



Solution Highlight

Zero Carbon Industrial Park >>

- Integrated BESS
- Zero carbon industrial park

Higher Return >>

- Peak valley arbitrage
- Demand response revenue

Safe & Stable >>

- Ensure stable
- Power Supply

Integrated BESS >>

- Energy consumption and equipment management
- Integration of source, network, load, storage



STRING INVERTER

FX-S30K/33K/36K/40K/50K-T

Reliable

- Type II surge protection
- 200m detection distance of AFCI, shutdown within 0.5 second at fastest
- IP66, suitable for harsh installation environment

Efficient

- Built in PID recovery to reduce power generation loss
- Support PLC communication and adapt to optimizer
- 40A large current, compatible with major module types

Simple

- Support PLC communication
- Quick installation
- Rapid APP configuration, efficient and convenient

Intelligent

- APP intelligent O&M, all-weather power station management
- Visual display, energy gain and data updated in real time
- Intelligent IV curve diagnosis, fast debugging

Product Model	FX-S30K-T	FX-S33K-T	FX-S36K-T	FX-S40K-T	FX-S50K-T
PV Input					
Max. Input Power	48kW	52.8kW	57.6kW	64kW	80kW
Max. Input Voltage	1,100V				
Nominal Input Voltage	600V				
Start-up Voltage	160V				
MPPT Operating Voltage Range	140 - 1,000V				
MPPT Full Load Voltage Range	450 - 850V				
Max. Input Current Per MPPT	40A				
Max. Input Current Per String	20A				
Max. Short-Circuit Current	50A				
Number of MPP Trackers	3	3	3	4	4
Max. Input Number Per MPP Tracker	2 / 2 / 2	2 / 2 / 2	2 / 2 / 2	2 / 2 / 2 / 2	2 / 2 / 2 / 2
AC Output					
Nominal Output Power	30kW	33kW	36kW	40kW	50kW
Max. Apparent Power	33kVA	36.3kVA	39.6kVA	44kVA	55kVA
Nominal Output Voltage	3L / N / PE, 220 / 380V, 230 / 400V				
Nominal AC Grid Frequency	50 / 60Hz				
Nominal Output Current	45.6A / 380V 43.3A / 400V	50.2A / 380V 47.6A / 400V	54.7A / 380V 52A / 400V	60.8A / 380V 57.7A / 400V	76A / 380V 72.2A / 400V
Max. Output Current	50.2A / 380V 47.6A / 400V	55.2A / 380V 52.4A / 400V	60.2A / 380V 57.2A / 400V	66.9A / 380V 63.5A / 400V	83.6A / 380V 79.4A / 400V
Adjustable Power Factor	0.8 leading...0.8 lagging				
THDi	< 3%				
Efficiency					
Max. Efficiency	98.6%				
European Weighted Efficiency	98.1%				
MPPT Efficiency	99.9%				
Protection					
Active Anti-islanding Protection	General Electric Frequency Shift				
Residual Current Monitoring	Yes				
DC Reverse Polarity Protection	Yes				
DC Switch	Yes				
AC Short-circuit Protection	Yes				
AC Overvoltage Protection	Yes				
AC Overcurrent Protection	Yes				
DC Surge Protection	Type II				
AC Surge Protection	Type II				
Ground Fault Detection	Yes				
AFCI	Yes				
PID recovery	Optional				
General Data					
Operating Temperature Range	-30 to + 60°C				
Relative Operating Humidity	0 ~ 100 %RH				
Operating Altitude	4,000m				
Cooling	Smart Air Cooling				
Display	LED/ WLAN+App				
Communication	RS485 / 4G / WIFI / HPLC				
Weight	44kg				
Dimensions (W*H*D)	615*460*268.5mm				
Topology	Non-Isolated				
Degree of Protection	IP66				
Overvoltage Level	PV II / AC III				
Optimizer Model	FX-OP700				



STRING INVERTER

FX-S100/110/120K-T

Reliable

- Type II surge protection
- 200m detection distance of AFCI, shutdown within 0.5 second at fastest
- IP66, suitable for harsh installation environment

Efficient

- Built in PID recovery to reduce power generation loss
- Support PLC communication and reduce the difficulty of construction
- 40A large current, compatible with major module types

Simple

- Support PLC communication
- Quick installation
- Rapid APP configuration, efficient and convenient

Intelligent

- APP intelligent O&M, all-weather power station management
- Visual display, energy gain and data updated in real time
- Intelligent IV curve diagnosis, fast debugging

Product Model	FX-S100K-T		FX-S110K-T	FX-S120K-T
PV Input				
Max. Input Voltage	1,100V			
Nominal Input Voltage	600V			
Start-up Voltage	160V			
MPPT Operating Voltage Range	140 - 1,000V			
Full-load MPPT Voltage Range	500 - 850V			
Max. Input Current Per MPPT	40A			
Max. Input Current Per String	20A			
Max. Short-Circuit Current	50A			
Number of MPP Trackers	10			
Max. Input Number Per MPP Tracker	20			
AC Output				
Nominal Output Power	100kW	110kW		120kW
Max. Apparent Power	110kVA	121kVA		132kVA
Nominal Output Voltage	220 / 380V, 230 / 400V, 3L / N / PE			
Nominal AC Grid Frequency	50 / 60Hz			
Nominal Output Current	151.9A	167.1A		182.3A
Max. Output Current	167.2A	185.7A		190.5A
Adjustable Power Factor	>0.99 (0.8 leading...0.8 lagging)			
THDi	< 3%			
Efficiency				
Max. Efficiency	98.8%			
European Weighted Efficiency	98.3%			
MPPT Efficiency	99.9%			
Protection				
Active Anti-islanding Protection	General Electric Frequency Shift			
Residual Current Monitoring	Yes			
DC Reverse Polarity Protection	Yes			
DC Switch	Yes			
AC Short-Circuit Protection	Yes			
AC Overvoltage Protection	Yes			
AC Overcurrent Protection	Yes			
DC Surge Protection	Type II			
AC Surge Protection	Type II			
Ground Fault Detection	Yes			
AFCI	Yes			
PID recovery	Optional			
General Data				
Operating Temperature Range	-30 to + 60°C			
Relative Operating Humidity	0 ~ 100 %RH			
Operating Altitude	4,000m			
Cooling	Smart Air Cooling			
Display	LED / WLAN+App			
Communication	RS485 / 4G / WIFI / HPLC			
Weight	94kg			
Dimensions (W*H*D)	1000*730*375mm			
Topology	Non-Isolated			
Degree of Protection	IP66			
Overvoltage Level	PV II / AC III			



STRING INVERTER

FX-S320K-HT

Reliable

- Type II surge protection
- Support smart connector-level detection and smart string-level disconnection
- IP66, suitable for harsh installation environment

Efficient

- Support PLC communication and reduce the difficulty of construction
- 72A large current, compatible with major module types

Simple

- Support active power fast response, Primary frequency control
- Suitable for weak power grid, SCR < 2% connected to power grid

Intelligent

- APP intelligent O&M, all-weather power station management
- Visual display, energy gain and data updated in real time
- Intelligent IV curve diagnosis, fast debugging

Product Model	FX-S320K-HT
PV Input	
Max. Input Voltage	1,500V
Nominal Input Voltage	1,080V
Start-up Voltage	500V
MPPT Operating Voltage Range	480 ~ 1,500V
Max. Input Current Per MPPT	72A
Max. Short-Circuit Current	120A
Number of MPP Trackers	6
Max. Input Number Per MPP Tracker	24
AC Output	
Nominal Output Power	320kW
Max. Apparent Power	352kVA
Nominal Output Voltage	800V, 3L / PE
Nominal AC Grid Frequency	50Hz / 60Hz
Nominal Output Current	230.9A
Max. Output Current	254A
Adjustable Power Factor	>0.99 (0.8 leading...0.8 lagging)
THDi	< 3%
Efficiency	
Max. Efficiency	≥99.03%
European Weighted Efficiency	≥98.52%
MPPT Efficiency	99.9%
Protection	
Active Anti-islanding Protection	General Electric Frequency Shift
Residual Current Monitoring	Yes
DC Reverse Polarity Protection	Yes
DC Switch	Yes
AC Short-Circuit Protection	Yes
AC Overvoltage Protection	Yes
AC Overcurrent Protection	Yes
DC Surge Protection	Type II
AC Surge Protection	Type II
Ground Fault Detection	Yes
AFCI	Yes
Smart String-level Disconnection	Yes
Smart Connector-level Detection	Yes
General Data	
Operating Temperature Range	-35 to + 60°C
Relative Operating Humidity	0 ~ 100 %RH
Operating Altitude	5,000m
Cooling	Smart Air Cooling
Display	LED / WLAN+App
Communication	RS485 / HPLC
Weight	< 116kg
Dimensions (W*H*D)	1048*732*395mm
Topology	Non-Isolated
Degree of Protection	IP66
Overvoltage Level	PV II / AC III
Night-time Power Loss	≤4.4W



HIGH VOLTAGE BATTERY

FX-E50/100/150/200-H

Safety

- Automotive grade battery
- Smog detecting, pressure relief valve
- Reliable IP65, C4 design to satisfy multi-scenario applications

Performance

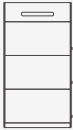
- 35A max charge/discharge current
- LiFePO4 cell configuration, long cycle life (>6000).
- Optional heating module, wider application scenarios

Simplicity

- Handle portable module, flat modular design, space-saving
- Flexible stacking, efficient installation, plug-and-play
- Multiple and flexible power options (5-20kWh compatibility)

Intelligent

- All in one platform monitoring
- Remote control and upgrade

Battery System	FX-E50-H	FX-E100-H	FX-E150-H	FX-E200-H
Module Number	 1 Module	 2 Modules	 3 Modules	 4 Modules
Nominal Battery Energy	5.3kWh	10.6kWh	15.9kWh	21.2kWh
Available Energy	4.5kWh	9.0kWh	13.5kWh	18.0kWh
Nominal Voltage	102.4V	204.8V	307.2V	409.6V
Working Voltage	86.4 - 115.2V	172.8 - 230.4V	259.2 - 345.6V	345.6 - 460.8V
Nominal Output Power	3.0kW	6.0kW	9.0kW	12.0kW
Cell Type	LiFePO4			
Max. Charging/Discharging Current	35A			
SOC Indicator	4*LED (25%, 50%, 75%, 100%)			
State Indicator	2*LED (work, alarm)			
Communication	CAN, RS485			
Working Temperature	0 - 50°C (heating version-20 - 50°C)			
Ingress Protection Rating	IP65			
Working Humidity	5 - 95%RH			
Working Altitude	< 4,000m			
Calendar Life	> 6,000 (70%EOL)			
Dimensions (W*H*D)	700*600*200mm	700*950*200mm	700*1300*200mm	700*1650*200mm
Net Weight	65kg	115kg	165kg	215kg
Alarms	Over charge / Over discharge/Over current / Over temperature / Short Circuit			

FX-E50/100/150/200-H2



Safety

- Automotive grade battery
- Smog detecting+pressure relief valve, risk warning&precaution and ultimate protection
- IP65(PACK IP67), C4 design to satisfy multi-scenario applications

Performance

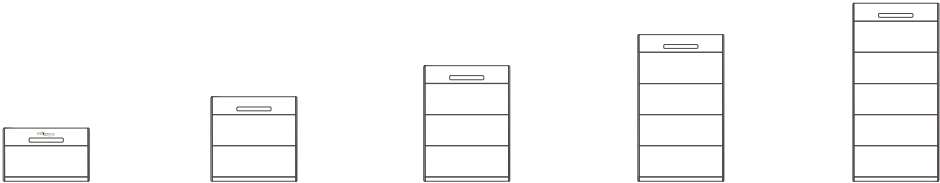
- 35A max charge/discharge current
- LiFePO4 cell configuration, long cycle life (>6000)
- Optional heating module, wider application scenarios

Simplicity

- Handle-type module, flat modular design, space-saving
- Flexible stacking, efficient installation, plug and play
- Multiple and flexible power options (5-50KWh compatibility)

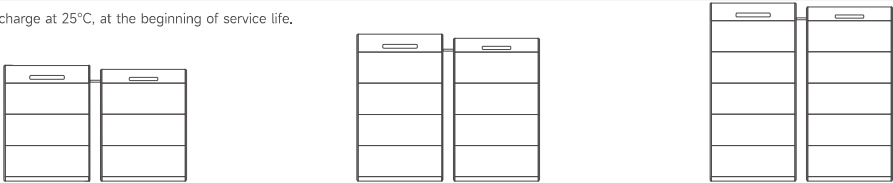
Intelligent

- All in one platform monitoring
- Remote adjustment mode
- Remote upgrade program supportable



Battery System	FX-E50-H2	FX-E100-H2	FX-E150-H2	FX-E200-H2	FX-E250-H2
Total Battery Capacity	5.3kWh	10.6kWh	15.9kWh	21.2kWh	26.5kWh
Usable Capacity ¹	4.5kWh	9kWh	13.5kWh	18kWh	22.5kWh
Nominal Voltage	102.4V	204.8V	307.2V	409.6V	512V
Working Voltage	86.4 ~ 115.2V	172.8 ~ 230.4V	259.2 ~ 345.6V	345.6 ~ 460.8V	432 ~ 576V
Nominal Output Power	3.0kW	6.0kW	9.0kW	12.0kW	15.0kW
Cell Type	LiFePO4				
Max. Charging/Discharging Current	35A				
SOC Indicator	4*LED (25%, 50%, 75%, 100%)				
State Indicator	2*LED (work, alarm)				
Communication	CAN, RS485				
Working Temperature	-10 to +50°C (heating version -20 to +50°C)				
Ingress Protection Rating	IP65 (PACK IP67)				
Working Humidity	5 ~ 95%RH				
Working Altitude	< 4,000m				
Calendar Life	> 6,000 (70%EOL)				
Dimensions (W*H*D)	700*600*200mm	700*1000*200mm	700*1350*200mm	700*1700*200mm	700*2050*200mm
Net Weight	58.6kg	102.6kg	146.6kg	190.6kg	234.6kg
Alarms	Over charge / Over discharge/Over current / Over temperature / Short Circuit				
¹ : Warranty	10 years				

Test conditions: 100% depth of discharge, 0.2C rate charge & discharge at 25°C, at the beginning of service life.



FX-E300/400/500-H2

Battery System	FX-E300-H2	FX-E400-H2	FX-E500-H2
Total Battery Capacity	31.8kWh	42.4kWh	53kWh
Usable Capacity ¹	27kWh	36kWh	45kWh
Nominal Voltage	307.2V	409.6V	512V
Working Voltage	259.2 ~ 345.6V	345.6 ~ 460.8V	432 ~ 576V
Nominal Output Power	18.0kW	24.0kW	30.0kW
Cell Type	LiFePO4		
Max. Charging/Discharging Current	35A		
SOC Indicator	4*LED (25%, 50%, 75%, 100%)		
State Indicator	2*LED (work, alarm)		
Communication	CAN, RS485		
Working Temperature	-10 to +50°C (heating version -20 to +50°C)		
Ingress Protection Rating	IP65 (PACK IP67)		
Working Humidity	5 ~ 95%RH		
Working Altitude	< 4,000m		
Calendar Life	> 6,000 (70%EOL)		
Dimensions (W*H*D)	Master: 700*1400*200mm Slave: 700*1350*200mm	Master: 700*1750*200mm Slave: 700*1700*200mm	Master: 700*2100*200mm Slave: 700*2050*200mm
Net Weight	Master: 148.1kg Slave: 146.6kg	Master: 192.1kg Slave: 190.6kg	Master: 235.1kg Slave: 234.6kg
Alarms	Over charge / Over discharge/Over current / Over temperature / Short Circuit		
¹ : Warranty	10 years		

¹: Test conditions: 100% depth of discharge, 0.2C rate charge & discharge at 25°C, at the beginning of service life.

Design and specifications are subject to change without notice.



Hangzhou Weltrus New Energy Technology Co.,Ltd.
Add : Block D, Ocean International Center, 333 Yuanjian Street, Hangzhou, Zhejiang,China.
Tel : +86 571 8838 9554 / +86 13588859502
E-mail : sales@weltrus.com
Website : www.weltrus.com