



## Energy Storage System With EV Charger

All In One Residential Solution

- ▶ Highly integrates hybrid inverter, LiFePO4 battery, EV charger
- ▶ IP65 waterproof
- ▶ Modular design for good expansibility, up to 8 battery modules in parallel
- ▶ Controlled by built-in DSP and adopt advanced SPWM technology
- ▶ Movable design for more convenience
- ▶ Smart IC card activation start
- ▶ Easy installation within 20 minutes individually
- ▶ 24-hours real-time online monitoring, connectable WIFI management control

Model	FEA7K	FEA22K
<b>Inverter Data</b>	<b>Single Phase</b>	<b>Three Phase</b>
Max. Input Power(W)	7000	11000
PV Input Voltage Range(V)	150~500	200~850
MPPT Operating Voltage Range(V)	120~430	230~850
Number of MPPT Trackers	2	2
Number of Strings Per MPPT	1	1
Max. Input Current per MPPT	15A/15A	15A/30A
Nominal Utility Grid Voltage(V)	220/230/240	380/400
Nominal Utility Grid Frequency(Hz)	50/60	50/60
Rated Power Output to Utility Grid(W)	5000	10000
Max. Apparent Power Output to Utility Grid(VA)	5500	3960*3
Back-up Rated Power(W)	4500	9200
Switch Time	<10ms	<10ms
<b>Battery Data</b>		
Battery Type	LiFePO4	LiFePO4
Single Battery Energy(kWh)	5.12	5.12
No. of Expandable Batteries	6	8
Usable Energy Range(kWh)	5.12~30.72	20.48~40.96
Battery Voltage Range(V)	41.6~58.5	180~750
<b>EV Charger Data</b>		
Rated Power(W)	7000	22000
Nominal Voltage(V)	220/230/240	380/400
Nominal Frequency(Hz)	50/60	50/60
Operation Mode	Swipe card/APP control/Insert charger plug to start automatically/Schedule appointment for charging	
Output Cable	5m AC charging cable	5m AC charging cable
<b>Conversion Efficiency</b>		
Max. Efficiency	98%	98%
EU Efficiency	97%	97%
Max. Battery to AC Efficiency	95%	95%
MPPT Efficiency	99.9%	99.9%
<b>System Data</b>		
Operating Temperature Range (°C)	-25°C~55°C	-25°C~55°C
Relative Humidity	≤95%(25°C)	≤95%(25°C)
Vibration	<0.5G	<0.5G
Noise	<35dB	<35dB
Installation Altitude above Sea Level	<2000m	<2000m
Protection Level	IP65	IP65
Cooling Mode	Natural Cooling	Natural Cooling
Communication	RS485/CAN/WiFi	RS485/CAN/WiFi
Inverter Dimensions (W*H*Dmm)	645*557*370	600*500*400
EV Charger Dimensions (W*H*Dmm)	650*270*370	600*200*400
Single Battery Dimensions (W*H*Dmm)	585*270*370	600*200*400
Base Dimensions (W*H*D mm)	680*110*378	604*100*404