

IESS-3K680N

All-in-One ESS



3600W+8000Wh ESS



3 In 1 Household ESS

Intelligent EMS & Dual Output PCS & Intelligent BMS



Class-A LiFePO4 Battery

6000 Life Cycle , Up to 8-10 Years
LiFePO4 Battery, High Safety and Performance



Ultra-large Capacity

8000Wh LiFePO4 Battery
Back-up Time up to 2Hours



Grid Compatibility

Phase Voltage Withstand Voltage 380V
Self-adapting to Unstable Power Grid
THDv<3%
Self-Adapting to Weak Grid



High Performance Inverter

UPS Class Switch time <10mS
Intelligent Overload Protection Mode

Model	IESS-3K680N
Efficiency	
MPPT Tracking Efficiency	99.0%
Max. Battery Mode Conversion Efficiency	90.0%
PV Input	
Max. PV Input Power	>5000W
Max. PV Input Voltage	500V
MPPT Voltage Range	40-430V
Start-Up Voltage	60V
Number of MPP Trackers	1
AC Input	
Max. Grid Input Voltage (Absolute Maximum Ratings)	380Vrms
Input Voltage Range	160-280VAC
OVP Voltage	280±10VAC
Maximum AC Input Power(Bypass Mode+Battery Charge)	4000W
Maximum AC Input Current(Bypass Mode+Battery Charge)	20A
Nominal Operating Frequency	50Hz/60Hz
AC Output	
Nominal AC Output Power (Inverter Mode)	3600W
Max. Output Apparent Power (Inverter Mode)	3600VA
Nominal AC Output Voltage(Inverter Mode)	230VAC
Total Voltage Harmonic Distortion (Inverter Mode)	<3%
Nominal AC Output Current (Inverter Mode)	16.4A
Max. Output AC Output Current Limit(Inverter Mode)	23A(3 seconds)
Nominal AC Frequency	50Hz
Switch Time	<10mS
Surge Power	5400VA (3 seconds)
Overload Capacity	105%-150%, after 3 seconds shutdown 150%-200%, after 0.2 second shutdown
Battery	
Battery Type	LiFePO4
Rated Battery Voltage	25.6VDC
Rated Capacity	314Ah
Battery Energy	8.038kWh
Cycle Life	6000
General Data	
Operating Temperature Range	-10~+60 C , >40 C Power Derating
Max. Operating Altitude	4000m , >2000m Power Derating
Feed to Grid	Support
Cooling Method	Intelligent fan Cooling
Noise	<47dB(1m)
Authentication Level	IEC62619/IEC62368/UN38.3
Protection	
Battery Fuse	Yes
Grid OVP	Yes
PV Over Voltage Protection	Yes
Overload Protection	Yes
Short Circuit Protection	Yes
Over Temperature Protection	Yes
Surge Protection	DC:Type II,AC:Type III