



SPECIFICATION	ESS PRO 6KW/5KWH	ESS PRO 6KW/10KWH	ESS PRO 6KW/15KWH	ESS PRO 6KW/20KWH
INVERTER / CHARGER				
Inverter Type	6KW/48V Off grid	6KW/48V Off grid	6KW/48V Off grid	6KW/48V Off grid
Rated Output Power	6KW	6KW	6KW	6KW
Output Voltage Waveform	Pure Sine Wave	Pure Sine Wave	Pure Sine Wave	Pure Sine Wave
Output Voltage	230VAC 50HZ	230VAC 50HZ	230VAC 50HZ	230VAC 50HZ
Low DC Warning Voltage	45.8Vdc	45.8Vdc	45.8Vdc	45.8Vdc
Low DC Cut-off Voltage	44.8Vdc	44.8Vdc	44.8Vdc	44.8Vdc
Low DC Warning Return Voltage	46.8Vdc	46.8Vdc	46.8Vdc	46.8Vdc
Total Charging Current(Grid+ solar)	120A Max .	120A Max.	120A Max.	120A Max.
Bulk Charging Voltage	57.6Vdc	57.6Vdc	57.6Vdc	57.6Vdc
Float Charging Voltage	56.0Vdc	56.0Vdc	56.0Vdc	56.0Vdc
LITHIUM IR ON BATTERY				
NormalBatteryModular	51.2V100Ah*1	51.2V100Ah*2	51.2V100Ah*3	51.2V100Ah*4
NormalCapacity(25C, 0.2C)	5120Wh	10.24KWh	15.36KWh	20.48KWh
NominalBatteryVoltage	51.2Vdc	51.2Vdc	51.2Vdc	51.2Vdc
NominalCapacity	100A	200A	300A	400A
Max.ChargeCurrent	150A 1Sec.	300A 1Sec.	450A 1Sec.	600A 1Sec.
Max.DischargeCurrent	50A	100A	150A	200A
OperationVoltageRange	44.8Vdc ~ 58.4Vdc	44.8Vdc ~ 58.4Vdc	44.8Vdc ~ 58.4Vdc	44.8Vdc ~ 58.4Vdc
OperationTemperature	-10C~ +50C	-10C~ +50C	-10C~ +50C	-10C~ +50C
AC INPUT				
Nominal Input Voltage	230Vac			
Low Loss Voltage	170Vac ± 7(UPS),90Vac ± 7(Appliances)			
Low Loss Return Voltage	180Vac ± 7(UPS),100Vac ± 7(Appliances)			
High Loss Voltage	280Vac ± 7			
High Loss Return Voltage	270Vac ± 7			
Max. AC Input Voltage	300Vac			
Nominal Input Frequency	50HZ / 60HZ(Auto detection)			
AC Charging Current	120A Max.			
SOLAR INPUT				
Nominal PV Voltage	360Vdc			
PV Array MPPT Voltage Range	120Vdc~450Vdc			
Max. PV Array Open Circuit Voltage	500Vdc			
Solar Charging Current	120A Max.			
PROTECTION				
Protection	Overcharge protection , Overdischarge protection , Overcurrent protection , Shortcircuit protection , Overtemperature protection			
AMBIENT				
Noise(dB)	< 30°C < 40dB (1 meter)			
Working Temperature	-10C~ +50C			
Humidity	0~95% (no condensation)			
Sea Level(m)	≤1500			
OTHERS				
Efficiency	92.0%			
Warranty	5 Years			

ESS Home Lithium Battery Storage System

Main Features

- All in one system, built inside with 48V lithium battery module, 6kw Off grid solar inverter, Solar/AC Charger
- Modular & Stacked Design for easy installation and expansion
- Smart BMS built inside, with communication protocol
- LiFePO4 cells cycle time Up to 6000 times charge/discharge cycles life
- With 120A mppt Solar charging and AC Charging function
- With all around protection
- DOD 80%, warranty 5 years, 10+ years life design