

Apollo Energy Storage System

Apollo-ESS 6KW, Apollo-ESS 8KW, Apollo-ESS 11KW



Main Features



Modular Design

Modular & stacked design for easy expansion and installation



All in One System

Integrated with inverter, MPPT charger, AC charger, LiFePo4 battery inside



Smart App

Smart WIFI monitor, user friendly



BMS

Smart BMS for communication and all around protection



Long Life-cycle

6000 Cycles LiFePo4 cells, 10+ years life design



Easy Operation

Easy installation, configurable of work mode and charge current

STORAGE SOLAR SYSTEM



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MODEL	Apollo-ESS 6KW	Apollo-ESS 8KW	Apollo-ESS 11KW
SPECIFICATION			
Inverter / Charger			
Inverter Type	6KW/48V Hybrid	8KW/48V Hybrid	11KW/48V Hybrid
Rated Output Power	6KW	8KW	11KW
Output Voltage Waveform	Pure Sine Wave	Pure Sine Wave	Pure Sine Wave
Output Voltage	230VAC 50HZ	230VAC 50HZ	230VAC 50HZ
Low DC Warning Voltage	45.8Vdc	45.8Vdc	45.8Vdc
Low DC Cut-off Voltage	44.8Vdc	44.8Vdc	44.8Vdc
Low DC Warning Return Voltage	46.8Vdc	46.8Vdc	46.8Vdc
Charging Current (Utility and solar together)	120A Max.	120A Max.	150A Max.
Bulk Charging Voltage	57.6Vdc	57.6Vdc	57.6Vdc
Float Charging Voltage	56.0Vdc	56.0Vdc	56.0Vdc
AC Input			
Nominal Input Voltage	230Vac	230Vac	230Vac
Low Loss Voltage	170Vac ± 7(UPS), 90Vac ± 7(Appliances)	170Vac ± 7(UPS), 90Vac ± 7(Appliances)	170Vac ± 7(UPS), 90Vac ± 7(Appliances)
Low Loss Return Voltage	180Vac ± 7(UPS), 100Vac ± 7(Appliances)	180Vac ± 7(UPS), 100Vac ± 7(Appliances)	180Vac ± 7(UPS), 100Vac ± 7(Appliances)
High Loss Voltage	280Vac ± 7	280Vac ± 7	280Vac ± 7
High Loss Return Voltage	270Vac ± 7	270Vac ± 7	270Vac ± 7
Max. AC Input Voltage	300Vac	300Vac	300Vac
Nominal Input Frequency	50HZ / 60HZ(Auto detection)	50HZ / 60HZ(Auto detection)	50HZ / 60HZ(Auto detection)
AC Charging Current	120A Max.	120A Max.	150A Max.
Solar Input			
Nominal PV Voltage	360Vdc	360Vdc	360Vdc
PV Array MPPT Voltage Range	120Vdc~450Vdc	120Vdc~450Vdc	120Vdc~450Vdc
Max. PV Array Open Circuit Voltage	500Vdc	500Vdc	500Vdc
Solar Charging Current	120A Max.	120A Max.	120A Max.
Lithium Iron Battery			
Capacity		5120Wh * N	
Nominal Battery Voltage		51.2Vdc	
Typical Capacity		100Ah * N set	
Max.Charge Current		50A * N	
Max.Discharge Current		100A * N	
Operation Voltage Range		44.8Vdc~58.4Vdc	
Operation Temperature		-10°C~+50°C	
Protection			
Protection	Overcharge protection, Overdischarge protection, Overcurrent protection, Shortcircuit protection, Overtemperature protection		
Ambient			
Noise(dB)	< 40dB (1 meter)		
working Temperature	-10°C~+50°C		
Humidity	0~95% (no condensation)		
Sea Level(m)	≤1500		
Inverter Dimension			
L×W×H (products size)	L682*W460*H160mm	L682*W460*H160mm	L682*W460*H160mm
Single Battery Pack Dimension			
L×W×H (products size)	L525*W460*H160mm	L525*W460*H160mm	L525*W460*H160mm

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