

Ampaura Power Stax 3 Energy Storage System



System Parameters

MODEL	Single Phase Inverter		
Operate temperature range	-20°C to +50°C (derating above +45°C)		
Storage temperature range	-20°C to +60°C		
Allowable relative humidity range	0% RH to 95% RH		
Degree of protection	IP65		
Cooling	Natural convection		
Noise	< 35 dB		
Altitude	≤2000m		
Display	LCD & App		
Communication	RS485/WiFi/Dry contact/BLE		
DRM	Dry Contact		
Mounting	Ground mounted		
Weight	157.5 kg	197 kg	236.5 kg
Dimension(W*H*D)	700*1230*250	700*1630*250	700*2030*250
Product ordering model	Inverter Module+N*Battery Mode		

Battery

Battery Type	LFP (LiFePO4)
Rated Capacity(kwh)	8.04 kWh
Rated Power	4 kW
Nominal Battery Voltage	25.6 V
Battery voltage range(v)	20 V to 28.8 V
Max. Charging Current(A)	157 A
Max. Discharging Current(A)	157 A
Depth of discharge (DOD)	95% adjustable
Dimension(W*H*D)	700*400*250
Weight	39.5 kg
Cycle Life	>8000 Cycles

Product Features

- UPS function, 10ms transition.
- Support DC-coupled, AC-coupled applications
- Support for AFCI function.
- Support multiple energy management modes: self-consumption, time-of-use, battery priority, and zero export.

Application scenario



System Parameters

MODEL	Single Phase Inverter		
System schematic	16 kWh	24 kWh	32.1 kWh
Usable Energy	15.2kwh	22.8kwh	30.5kwh
Rated output power	8kw	12kw	16kw
Qty of batteries (XCD BAT 8.0)	2	3	4



System Parameters

Inverter				
Input(PV)	Max.power(kW)	12.8kw	19.2kw	24kw
	Max.DC voltage(V)	500V		
	Start-up Voltage (V)	70V		
	MPPT voltage range(V)	70V to 500V		
	Number of MPP trackers	3	3	4
	Max.Input Per Current (A)	20A		
	Max.Short Input Current (A)	22.5A/22.5A		
AC Output(Grid)	Nominal AC Output Power(kW)	8kw	12kw	16kw
	Max. AC Apparent Power(kVA)	8VA	12VA	16VA
	Rated Grid Voltage(V)	L/N/PE, 220 V~, 50/60Hz		
	Grid voltage rang	170V~ to 265V~ (L-N-PE)		
	Rated Frequency Range(HZ)	50Hz (According to local standard)		
	THDI	< 3%		
	PF	0.8leading-0.8lagging		
	AC grid connection type	Single phase		
EPS Output(Back-up)	Nominal Output Power(kW)	8kw	12kw	16kw
	Nominal Output Current(A)	34.8A	52.2A	69.6A
	Peak Power(10s)	8.8kw	13.2kw	17.6kw
	Nominal Output Voltage(V)	230V		
	Nominal Output Frequency(HZ)	50/60Hz		
	Transfer Time(ms)	< 10ms		
	THDU	< 3%@100% R Load		



System Parameters

Inverter		
Efficiency	Max. Efficiency	98%
	European efficiency	97.5%
	MPPT efficiency	99.9%
Protection Devices	PV Reverse-polarity Protection	Yes
	Insulation Resistance Monitoring	Yes
	AC/DC Surge Protection	DC Type II;AC Type III
	AC Short-circuits Protection	Yes
	Leakage Current Protection	Yes
	Anti-islanding Protection	Yes
	AFCI Protection	Yes
Certification		
Certification & Standard	Inverter: IEC/EN 62109-1, IEC/EN 62109-2, IEC62040, EN50549-1, AS/NZS 4777.2:2020, CEC VDE -AR-N 4105:2018, DIN VDE V0124-100:2020, IEC/EN 62477 Battery pack: IEC/EN 62477, IEC/EN 62619, UN38.3	