

PowerStation Series Air-Cooled Energy Storage System

- ✓ Up to 6 Unit in Parallel
- ✓ Comprehensive Safety Protections
- ✓ Compatible with Diesel Generators for Fuel Saving
- ✓ Support Three-Phase 230V/400V Power Distribution
- ✓ IP54 Enclosure Rating
- ✓ Support Remote Upgrade
- ✓ Support P/Q and V/F Modes
- ✓ Support Mixed Operation of New & Used Batteries
- ✓ 10 Years of Warranty



Technical Specifications

Model	Power Station 2045	Power Station 2560	Power Station 3060
Battery Parameters			
Nominal Energy (kWh)	45.6	60.8	60.8
Nominal Voltage/Voltage Range (V)	316.8 / 277.2 - 361.35	422.4 / 369.6 - 481.8	422.4 / 369.6 - 481.8
Charge Discharge Rate (C)		0.5 / 0.5	
Number of Battery Optimizer	2	2	2
Number of Battery Pack	6	8	8
Battery Pack Model		RBmax7.6MH	
Nominal Energy	7.6 kWh (33S1P, 3.2 V 72 Ah)		
Nominal Voltage/Voltage Range (V)	105.6 / 92.4 - 120.45		
Max. Continuous Working Current	50 A		
Cycle Life	6000 @ 25°C,90% DOD, 0.5C / 0.5C, 70% EOL		
Dimension (W×D×H) (mm / inch)	500 x 760 x 148 / 19.69 x 29.92 x 5.83		
Net Weight (kg / lbs)	67 / 147.7		
Battery Optimizer Model		RMH95050	
DC Working Voltage (V)	550 - 950		
Nominal Power (kW)	15		
Dimension (W×D×H) (mm / inch)	500 x 660 x 228 / 19.69 x 25.98 x 8.98		
Net Weight (kg / lbs)	51 / 112		
Inverter Model	SUN20000T-EI	SUN25000T-EI	SUN30000T-EI
Input (PV)			
Max. Power (W)	45000		
MPPT Range (Full Load) (V)	340 ~ 800	270 ~ 800	340 ~ 800
MPPT Range (V)	160 ~950		
Max. DC Voltage (V)	1000		
Start Voltage (V)	180		
Max. DC Current (A)	30 / 30	30 / 30 / 30	30 / 30 / 30
MPP Tracker No.	2	3	3
String No.	2+2	2+2+2	2+2+2

Input (DC BUS)

Compatible Battery Type	Lithium-ion
Bus Voltage Range (V)	550-950
Max. Charge / Discharge Current (A)	50
Lithium Battery Charge Curve	Self-adaption to BMS

Output (On Grid)

Nom. Power (Output) (W)	20000	25000	30000
Maximum Apparent Power (Output) (VA)	22000	27500	33000
Nominal Voltage (V)	380 / 400 (Three Phase)		
Nominal AC Frequency (Hz)	50 / 60		
Nominal Current (Output) (A)	3 * 33.33 / 3 * 28.9	3*41.67/3*36.3	3*43.5/3*43.5
Maximum Current (Input) (A)	3 63		

Output (BackUp)

Nom. Power (VA)	20000	25000	30000
Maximum Power (5min) (VA)	24000	30000	36000
Apparent Power (10s) (VA)	30000	37500	45000
Nom. Bypass Power (VA)	45000		
Nominal Back-up Voltage (V)	380 / 400 (Three phase)		
Nominal Back-up Frequency (Hz)	50 / 60		
Nominal Back-up Current (A)	3* 33.33 / 3 * 28.9	3 * 41.67 / 3 * 36.3	3*43.5 / 3*43.5
THDV	<3% (R Load), 5% (RCD Load)		

Efficiency

Max. Efficiency (PV to Grid)	98.8%	98.8%	98.8%
Eur. Efficiency (PV to Grid)	97.2%	97.9%	97.9%
Max. Charge Efficiency (PV to Battery)	98%	98%	98%
Max. Charge/Discharge Efficiency (Grid to Battery)	98%	98%	98%

Inverter General

Temp. Range	-25~60°C	Noise Emission	45 dB
Max. Operation Altitude	4000 m	Humidity	0-100%
Topology	Transformerless	Cooling	Smart Fan
Enclosure Rating	IP65	W x H x D (mm/inch)	650x500x265 / 25.59x19.69x10.43
Weight(kg / lbs)	45 / 99.2		

HMI & COM of Inverter

Display	LED+APP (Bluetooth)
Communication Interface	LED + APP (Bluetooth), BMS (CAN / RS485), Wi-Fi / GPRS / 4G / Ethernet (optional), DI (DRM / RCR), Meter (RS485), 1 DO, USB (Firmware Upgrade)

Inverter Protection

Protection	Anti-islanding Protection, AC Over-current Protection, AC Short-circuit Protection, AC Over-voltage Protection, Insulation Detection, GFCI		
SPD	DC Type 2, AC Type 2	AFCI	Optional
RSD	Optional	DC Switch	Internal

System Parameters

Ambient Temperature (°C)	-20 - 55 (>45 derating)
Parallel	6
Storage Environment Temperature (°C)	0~40
Relative Humidity of Working Environment	5~95%, Non-condensing
Cooling Method	Intelligent Air-cooled
Noise Level (dB)	60
Firefighting Methods	Cell-level Monitoring + Pack level Protection + Cabinet-level Gas Fire Protection (Aerosol)
Off-Grid Switching Time (ms)	20
Working Altitude (m)	4000 / 13,123 (> 2,000 / > 6,561.68 derating)
Installation Method	Floor-to-ceiling Installation
Communication Model	CAN, RS485, Dry, 4G / WiFi
Enclosure Rating	IP54@Battery Cabinet
Weight (kg / lbs)	926 / 2041
Size (L x W x H) (mm / inch)	1050 x 685 x 2000 / 41.34 x 26.97 x 78.74