

# Grid-Connected and Off-Grid Solar-Plus-Storage System

HEX Large-1000-1543    HEX Large-1000-2058



## Standardized Design, Easy Deployment

Utilizes standard 40ft high-cube container design, meeting multimodal transport requirements. Enables quick on-site installation with 20% higher space utilization.



## Intelligent Integration, Simplified Wiring

Features highly integrated AC/DC side design with triple-power fusion. Only requires grid connection on-site, significantly reducing installation complexity.



## Safe & Stable, Mode-Free Operation

Equipped with standard grid-on/off automatic switching function. Built-in isolation transformer effectively suppresses grid interference for enhanced operational safety.



## Solar-Storage Integration, Flexible Expansion

Integrated PV DC input interfaces support direct component charging. Improves PV utilization by 3-5%, adapting to multi-energy complementary scenarios.

Model	HEX Large-1000-1543	HEX Large-1000-2058
DC battery		
Cell type	LFP 314Ah	
Battery Pack capacity and configuration	16.077 kWh / 1 p16s	
Battery capacity/number of packs	1543kWh/ 96	2058kWh/128
Battery voltage range	716.8 V to 921.6 V	
Rated charge/discharge rate	0.5 C	
Cycle index	8000cls (0.5P,25±2 °C,@70%SOH)	
Number of temperature monitoring points	768	1024
PV DC Side		
Input the number of branches	12 channels (optional 2 PV MPPT controllers per cluster)	16 channels
Rated current	168Ax12 channels	168Ax16 channels
Rated power	120kW x12 channels	120kWx16 channels
PCS AC Side (On-grid)		
Ac rated power	1000kW	
Ac maximum power	1100kW	
Rated current	1444A (722A*2)	
THDi	<3%	
Dc component	<0.5% LPN	
System voltage format	3W+N+PE	
Voltage range	360VAC~440VAC	
Frequency range	45~55Hz/55~65Hz	
Power factor	-1 ~ 1	1 ~ 1
PCS AC Side (Off-grid)		
Rated output power	950kW	
Rated output voltage	400V	
Rated output frequency	50/60Hz	
THDu	<1% linear,<5% nonlinear	
Overload capacity	Overload at 110% for 10 minutes	
Distribution and switching time		
Bypass maintenance switch	1250A*2	
DC switch	1250A*2	
Load switch	1250A*2	
Grid switch	1250A*2	
STS unit	(1155A/800kW) *2	
STS switching time	<20ms	
System		
Factory SOC Settings	30% - 50%	
Maximum system efficiency	≥97.5%	
Operating temperature	-30 to 55 °C (derating above 40 °C)	
Relative humidity	0 to 95%RH,no condensation	
Dimensions	12192(W)*2438(D)*2896(H)*mm	
Weight	<26T	
IP grade	Container IP54	
Noise level	<70dB	
Networking	4G/WiFi/ Ethernet	
Fire protection system	Aerosol	
Display screen	LCD touch	
Diesel generator		
Grid feedback input	220Vac	
Diesel engine drive output	Dry contact	