HOUSEHOLD ENERGY STORAGE SYSTEM

THREE-PHASE HYBRID SOLAR INVERTER

E 8.5kW~15.5kW/125~600V

Application Scenarios

Household or light commercial three-phase hybrid energy storage system, is applicable to newly installed or modified photovoltaic energy storage system, AC 380V/400V





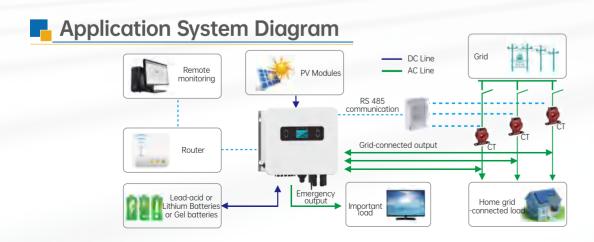






Product Highlights

- It has the function of soft start when closing the battery switch, which can eliminate the starting inrush current, protecting both the machine and the battery.
- The PV power can reach up to twice the rated power, and it simultaneously supports full-power grid connection as well as charging and energy storage.
- It adopts three stage charge discharge conversion, which results in low current ripple and prolongs the service life of the battery.
- The Maximum Supports up to 15 parallel machines, Meet users' capacity expansion needs.
- It is equipped with a multi-functional generator interface, enabling intelligent switching and control, thus saving additional investment.
- Both the AC input port and the generator interface can be connected to the PV grid -connected inverter for renovating the original PV system.
- 4.3-inch 65K-color HD touch screen, supporting customization of languages worldwide
- Set the charging and discharging time periods according to the time-of-use electricity price.
- (iii) With an IP66 protection rating, it can be installed outdoors.



HB3085EH600~HB3155EH600 Parameters

MODEL	HB3085EH600	HB3105EH600	HB3125EH600	HB3155EH600
PV Input				
Max PV Input Power	17000W	21000W	25000W	31000W
Max PV Input Voltage	1000Vdc			
PV Input Starting Voltage	120Vdc			
MPPT Input Voltage	120~850Vdc			
MPPT Full Load Voltage Range	320~850Vdc	400~850Vdc	320~850Vdc	400~850Vdc
PV Max Input Current	15A+		30A+15A	30A+30A
PV Short-circuit Current	17A+17A		34A+17A	34A+34A
umber of MPPT / Strings per MPPT			2/2+1	2/2+2
AC Output	Σ,		2/2 -	2,2 2
Rated Output Voltage		220/380Vac,	230/400Vac	
Grid Voltage Range	Local grid standard mode / Custom mode: 90Vac~280Vac (configurable)			
Output Frequency Range	•		gent adaptive/Settable	
Rated Output Current	12.3A	15.2A	18.2A	22.4A
Max Grid-connected Current	14.2A	17.5A	20.8A	25.8A
Rated Grid-connected Power	8500W	10500W	12500W	15500W
Max Grid-connected Viewing Power	9350VA	11550VA	12500VV 13750VA	17050VA
Max Grid-connected Active Power		11550VA 11550W	13750VA 13750W	17050VA 17050W
	9350W			1705000
DC Component	< 0.5% In			
Grid Type	Three-phase, 3L+N+PE			
Output Power Factor(cosφ)	> 0.99 @ Rated power (Adjustable 0.8 leading~0.8 lagging)			
THDi	< 3%			
THDu	< 2%(Linear load)			
Transfer Time	10ms(Typical value)			
Off-grid Overload Capability		<110%Long-term work, 110	0%-120% 1min , >120% 10S	
Battery Input				
Battery Type	Lead-acid, lithium batteries, gel batteries, etc			
Charging Mode	3-section Type/Equilibrium/Self-adaption BMS			
Battery Voltage	125~600V			
Max Discharge/Charging Current	50A			
Rated Discharge/Charging Current		40	A	
Efficiency				
Max PV Conversion Efficiency	97.6%		98.2%	
European Efficiency	97.0%			97.5%
MPPT Efficiency		> 99	9%	
General Parameters				
Display	Touch Screen+LED			
Communication Mode	Standard: RS485/CAN/DRM, Optional 4G/WIFI/GPRS			
Protection function	Over/Under Volt Prot, Over/Under Freq Prot, AC Out SC/OL Prot, Anti-Island Prot, Batt Chg/Dchg OC Prot, Leakage Curr Prot, Insul Imped Prot, Grd Fault Prot, PV Rev Col			
Surge Protection	DC Type II / AC Type III			
Noise (dB)	< 30			
Cooling	Intelligent forced air cooling			
Operating Ambient Temperature	-25°C ~ 60°C(> 45°C Derating)			
Humidity	0~100%			
Altitude	4000m (>2000m Derating)			
Electricity Consumption At Night	15W			
Protection Degree	IP66			
Installation Method	Wall-mounted			
Dimension. W*D*H(mm)		590*20	0*488	
Weight (kg)	31	33	3	5
Warranty		5 years standard/		
Certifications				
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Specifications are subject to change without advance notice.