

Green Hero Infinity

All-in-one Energy Storage System

Three-phase

Safe & Reliable
Powered by CATL and EVE Human safe low-voltage solution, including AFCI

Easy Installation
Stackable design, no wiring required
Compact and space-saving IP66 rating for protection

Smart Home Energy
Supports Self Consumption, Peak Shaving, Time-of-use, and Battery Priority operation modes SG Ready Heat Pump compatible

Flexible Expansion
Supports both on-grid and off-grid parallel configurations Max. 8 battery packs per system

High Performance
DC/AC ratio up to 2
Long battery cycle life
100% three-phase unbalanced output

Smart O&M
24 / 7 cloud monitoring
Easy commissioning via Bluetooth
Remote firmware upgrades

General Parameters	
Battery Type	LFP (LiFePO4)
Cell Brand	EVE / CATL
Energy Capacity	5,12 kWh
Usable Capacity	4,6 kWh
Max. Depth Of Discharge	100%
Nominal Voltage	51,2 V
Operating Voltange Range	44,8 ~ 57,6 V
Battery Pack Efficiency	> 94%
Weight	51 kg
Dimensions (WxHxD)	725 x 418 x 165 mm
IP Protection	IP65
Warranty	10y Product Warranty 10y Performance Warranty

Certificate	
Safety and Transportation	Pack:IEC/EN 62619;UN38.3; Cell:IEC/EN 62619;UN38.3;UL1973

Operation	
Max. Continuous Charging Current	80 A
Max. Continuous Charging Power	4096 W
Max. Continuous Disharging Current	80 A
Max. Continuous Disharging Power	4096 W
Operating Temperature Range	-20 to 50°C (Charging); -20 to 50°C (Discharging)
Cooling Type	Natural Cooling
Humidity	0 ~ 90%

BMS	
Modules Connection	Max. 8
Capacity	100 / 200 / 300 / 400 / 500 / 600 / 700 / 800 Ah
Communication	CAN
Monitoring Parameters	System voltage,current,battery voltage, Battery temperature, PCBA temperature measurement

PV String Input	INF 8-0	INF 10-0	INF 12-0
Max. Continuous PV Input Power	16kW	20kW	22kW
Max. DC Voltage		1000V	
Nominal Voltage		720V	
MPPT Voltage Range		140 ~ 950 V	
MPPT Voltage Range (Full Load)	290 ~ 800 V	320 ~ 800 V	350 ~ 800 V
Start Voltage[1]		200 V	
Number of MPPT		2	
String per MPPT		1	
Max. Input Current Per MPPT		20 A	
Max. Short-circuit Current Per MPPT		25 A	
AC Output & Input (Grid)			
Max. AC Continuous Output Power	8kW	10kW	12kW
Max. AC Apparent Output Power	8.8kVA	11kVA	13.2kVA
Max. Continuous Input Power	16kW	20kW	22kW
Nominal AC Voltage		400Vac	
Nominal Frequency		50 Hz / 60 Hz (±5 Hz)	
Nominal Output Current (RMS)	11.6 A	14.5 A	17.4 A
Max. Output Current (RMS)	26.1 A	26.1 A	26.1 A
Max. Input Current (RMS)	38.8 A	42 A	42 A
Power Factor (cos φ)		-0.8 (Lagging) ~ 0.8 (Leading)	
THDi		<3%	
AC Output (Backup)			
Nominal AC Output Power	8kW	10kW	12kW
Max. AC Output Power	8kVA	10kVA	12kVA
Nominal Output Current	11.6 A	14.5 A	17.4 A
Max. Output Current (RMS)	26.1 A	26.1 A	26.1 A
Nominal Output Voltage		400Vac	
Nominal Output Frequency		50 Hz / 60Hz	
Output THDv (@Linear Load)		2% (Linear Load)	
Battery Input			
Battery Type		LFP	
Nominal Battery Voltage		51.2 V	
Charging Voltage Range		44 ~ 58 V	
Max. Charging / Discharging Current	160 A / 200 A	200 A / 240 A	200 A / 240 A
Rated Charging / Discharging Power	8kW	10kW	10kW-12kW
Battery Capacity		100 ~ 800 Ah	
Efficiency			
Max. PV Efficiency		97.2 %	
Protection			
DC Switch		Integrated	
Anti-islanding Protection		Integrated	
Residual Current Monitoring		Integrated	
PV Reverse Polarity Protection		Integrated	
AC Short Circuit Protection		Integrated	
AC Overvoltage Protection		Integrated	
DC/AC Surge Protection		DC Type II; AC Type III	
Remote Shutdown		Integrated	
AFCI		Optional	
General Specification			
Dimensions W x H x D		725 x 490 x 245 mm	
Weight		43 kg	
Operating Temperature Range		-25°C to +60°C (>40°C derating)	
Cooling Type		Natural Convention	
Max. Operation Altitude		≤ 4000m	
Operation Humidity		0 ~ 95% (No Condensation)	
Certification & Standard		IEC/EN62109-1&2; IEC/EN 61000-6-1; IEC/EN 61000-6-2; EN 61000-6-3; IEC/EN 61000-6-4; IEC/EN 61000-3-11; EN 61000-3-12; IEC 60529; IEC 61727; IEC 62116; IEC 60068; IEC 61683; EN 50549-1; EN 50549-10; VDE-AR-N 4105; NC RfG:2018; C10/C11	