

Hybrid Inverter Model

PV String Input	
Max. Continuous PV Input Power	20000W
Max. DC Voltage	1100V
Nominal Voltage	720V
MPPT Voltage Range	140V-1000V
MPPT Range (Full Load)	420V-850V
Start Voltage	130V
MPPT Tracker / Strings	2/2
Max. Input Current Per MPPT	15A
Max. Short-circuit Current Per MPPT	20A
AC Output (Grid)	
Nominal AC Output Power	10000W
Max. AC Apparent Power	11000VA
Nominal AC Voltage	400Vac 3W+N+PE
AC Grid Frequency Range	50 / 60Hz
Max. Output Current	14.5A
Max. Input Current	16A
Power Factor (cos Φ)	0.8leading-0.8lagging *
Battery Input	
Battery Type	LFP (LiFePO4)
Nominal Battery Voltage	48V
Charging Voltage Range	40-60V
Max. Charging Current	200A
Max. Discharging Current	200A
AC Output (Backup)	
Max Output Apparent Power	10000VA
Rated Output Power	9200W
Rated/Max. Output Current	14.5A/16A
Nominal Output Voltage	400V
Nominal Output Frequency	50/60Hz(±2%)
Output THDv (@Linear Load)	<3%(Linear Load)
Protection	
Anti-islanding Protection	Yes
Output Over Current	Yes
DC Reverse Polarity Protection	Yes
String Fault Detection	Yes
AC/DC Surge Protection	DC Type II;AC Type III
Insulation Detection	Yes
AC Short Circuit Protection	Yes
General Specifications	
Dimensions W x H x D	540*980*240mm
Weight	42kg
Operating Temperature Range	-25°C ~+60°C (Derating -45°C)
Noise (dB)	<25
Cooling Type	Natural Convection
Max. Operation Altitude	3000m (Derating □ 2000m)
Operation Humidity	0~95% (No Condensation)
IP Class	IP65
Topology	Battery Isolation
Communication	RS485/CAN2.0/WIFI/4G
Display	LCD/APP

RESIDENTIAL ESS

THREE-PHSE SMART ALL-IN-ONE SOLUTION

Hiconcis SMART ESS is an ALL-IN-ONE solution with compact and minimalist design that can be installed easily and requires minimum maintenance. Our SMART series scales in size to meet your household energy needs. It will actively store excess solar energy and ensure ALL-DAY power supply for your most needed appliances.

It provides you with better backup protection:
Even if the grid goes down, your power will stay on.



Hiconics Eco-energy Drive Technology Co., Ltd., is a listed company founded in 2003 (stock code: 300048). We became a member of Midea Group in April 2020. Now Hiconics belongs to Midea Industrial Technology Business Group (MITBG). Up until now, Hiconics' registered capital has reached USD267 million, with 200+ patents and 1200+ employees globally.

We have our specialties in INDUSTRIAL AUTOMATION & GREEN ENERGY MANAGEMENT.

We have been dedicated to providing you with stable and innovative products, as well as sustainable power solutions in the past decades.

We are greater than just a manufacturer: we are an innovator, a solution provider, and an alliance.

1200+
Employees

200+
Related patent certifications

\$13.67M
R&D investment/year

30+
Countries & regions where Hiconics products are sold to

SMART Series Three-phase All-in-one Energy Storage System

Reliable

Safest type LFP battery: CATL
IP65 protect level
Without exposed wiring

Flexible

Adjustable power in each phase
Battery pack can be shared with single & three phase
Support diesel generator control (DI/DO)

Friendly

Modular design, plug & play
Mobile APP monitoring

Efficient

Supporting 200% oversized PV power
On & off grid parallel system



Battery Model			
Physical		Operation	
Battery type	LFP (LiFePO4)	Max. Charge/Discharge Current	50A/80A
System Weight	54KG	Rated DC power	4096W
Dimension (W x H x D)	540*490*240	Max. Charge/Discharge Power	2825W/4096W
IP Protection	IP65	Operating Temperature Range	0 to 50°C charging -10 to 50°C discharging
Warranty	5 Year Product Warranty, 10 Year Performance Warranty	Humidity	0~95% (No condensation)
Electrical		BMS	
Energy Capacity	5.12kwh	Modules Connection	Max. 4
Usable Capacity	4.6kwh	Capacity	100-400Ah
Depth of Discharge (DoD)	90%	Power Consumption	<2W
Rated Voltage	48V	Communication	CAN & RS485
		Monitoring Parameters	System voltage, current, cell voltage, cell temperature, PCBA temperature measurement
Operating Voltage Range	44.8-56.5V	Certificate	
Internal Resistance	<20mΩ	Safety(Cell)	Pack: IEC/EN 62619;UN38.3 Cell: IEC/EN 62619;UN38.3;UL1973
Cycle Life	10000cycle		