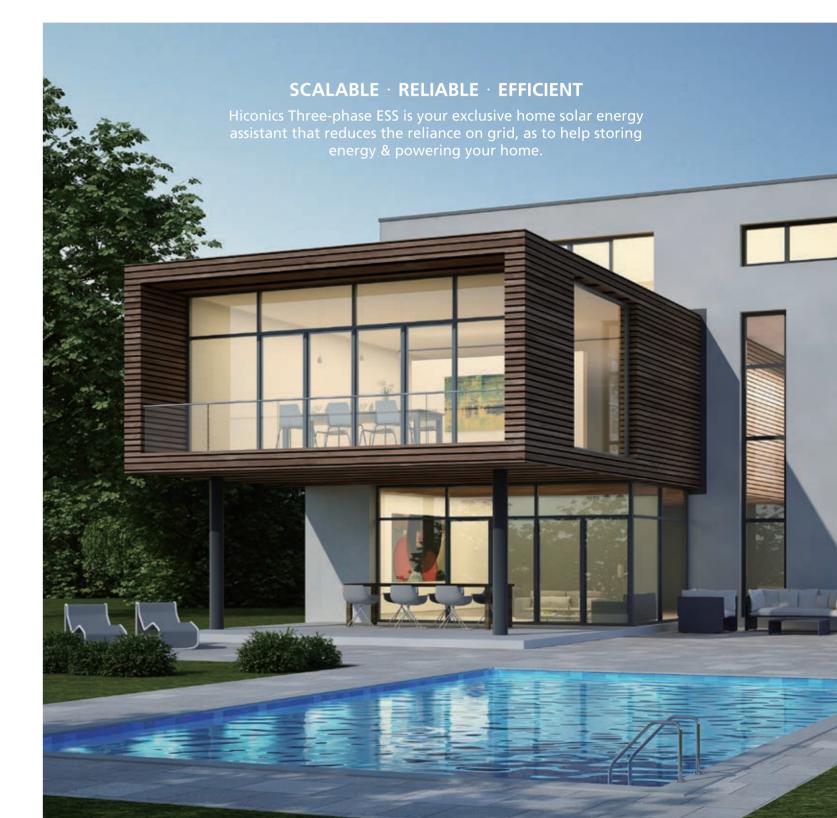


RESIDENTIALESS

THREE-PHASE ESSENTIAL SOLUTION





Max. Parallel 16pcs

Battery Voltage 48V

Unbalanced Output 100%

Max.Charging /Discharging Current 240A



DC couple & AC

couple to retrofit

existing solar system









Safer design: built-in transformer for electrical isolation

6 time periods for battery charging/ discharging

Support storing energy from diesel generator

HICONICS

Battery Input Data Battery Type

Charging Curve

PV String Input Data Max. DC Input Power (W)

Start-up Voltage (V)

PV Input Current (A)

Max. PV ISC (A)

AC Output Data

Max. AC Current (A)

Power Factor

Grid Type

Efficiency Max. E x005fciency

Protection

Integrated

Cooling

Noise (dB)

Weight (kg)

Size (mm)

Warranty

Protection Degree Installation Style

Grid Regulation

Safety EMC / Standard General Data

Communication with BMS

Rated PV Input Voltage (V)

MPPT Voltage Range (V)

Full Load DC Voltage Range (V)

Number of MPPT / Strings per MPPT

Rated AC Output and UPS Power (W)

Max. Continuous AC Passthrough (A)

Max. AC Output Power (W)

AC Output Rated Current (A)

Peak Power (o_x005f grid)

DC injection current (mA)

Euro E_x005fciency

MPPT E x005fciency

Output Frequency and Voltage

Certififications and Standards

Operating Temperature Range (°C)

Battery Voltage Range (V)

Max. Charging Current (A)

Max. Discharging Current (A)

External Temperature Sensor

Charging Strategy for Li-Ion Battery

HICONICS ECO-ENERGY TECHNOLOGY CO.,LTD.

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HEC-T 15.36kWh(8kW)

190

190

190

10400

8000

8800

12.1

18.2

HEC-T 20.48kWh(10kW)

210

210

13000

10000

11000

15.2

22.7

13+13

17+17

2/1+1

Lead-acid or Li-lon

Yes

3 Stages / Equalization

Self-adaption to BMS

550 (160~800)

160

200-650 350-650

2 time of rated power, 10 S 0.8 leading to 0.8 lagging

50/60Hz; 3L/N/PE 220/380, 230/400Vac

THD<3% (Linear load<1.5%)

Three Phase

97.60%

97.00%

99.90%

PV Input Lightning Protection, Anti-islanding Protection, PV String Input Reverse Polarity Protection, Insulation

EN50549,AS4777.2,VDE0126,IEC61727,VDEN4105,G99,NBT32004, CEI0-21,NRS097,NBR16149/16150,RD1699

-45~60°C , >45°C derating

Smrat cooling <45 dB

RS485; CAN

33.6

422W x 702H x281D IP65

Wall-mounted

5 years

Resistor Detection, Residual Current Monitoring Unit, Output Over Current Protection, Surge protection

IEC62109-1/-2, EN61000-6-1, EN61000-6-2, EN61000-6-3, EN61000-6-4

HEC-T 20.48kWh(12kW)

240

240

240

15600

26+13

34+17

2/2+1

12000

13200

18.2

27.3



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

Related patent certifications

200+

\$13.67M

R&D investment/year

30+

Countries & regions where Hiconics products are sold to









Reliability

- Powered by the safest CATL LFP cells Overall test: Crush Test, Bonfire Test, Impact
- Test, Water-proofed Test Adopt Self-heating Long Cycle Life Technology

Efficient

Deep discharge >95% Provide more usable power

Effortless

remote & real-time control

· Modular design, easy to expand

Residential ESS

Three-phase ESSENTIAL Standard Solution

Max. Capacity 80kWh

Cycle Life >6000 >95%

Protection Level IP54



Reliability

The safest type of LFP battery. BMS intelligent control system Lower voltage solution, less risk of electric arc occurrence



Flexibility

Suitable for variable of power & capacity, meet further expansion requirements Support floor/wall mounting installation

Model	HEC-Cabinet-LV-20K			
Battery type	LFP (LiFePO4)			
Operating Voltage Range(V)	44.8~57.6 (Rated 48V)			
Rated Voltage(V)	51.2			
Number of battery pack	1	2	3	4
Parallel	Max.16			
Energy Capacity(kWh)	5.12	10.24	15.36	20.48
Rated DC power(kW)	2.5	5	7.5	10
Max Output Current(A)	100	200	250	250
Rated Output Current(A)	50	100	150	200
Max. Charging Current(A)@0~25°C	100	200	250	250
Depth of Discharge (DoD)	95%			
Cycle Life	≥ 6000 (25°C)			
Dimensions W x D x H(mm)	387*581*133	392*591*391	392*591*584	392*591&777
Weight(kg)	45(no stand)	93(with 2 stands)	139.5(with 3 stands)	186(with 4 stands)
IP Class	IP54			
Cooling Type	Natural Convection			
Operating Temperature Range	-20~45			
Humidity	0~95% (No condensation)			
Max. Operation Altitude	< 2000m			
Communication	RS485/RS232/CAN			
Certification	UL1973/IEC62619/CE-EMC/FCC/UN38.3			