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STOCK CODE:300048



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ABOUT US

OUR COMPANY :

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.

HIGHLIGHTS :

200+ Related patent certifications

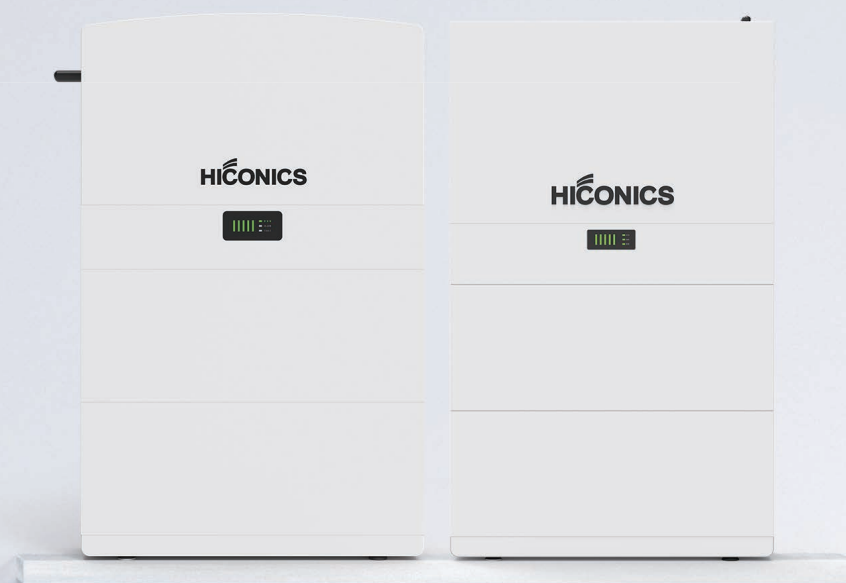
1.45 billion R&D investment/year

1200+ Employees

30+ Countries & regions where Hiconics products are sold to



ALL-IN-ONE SOLUTION



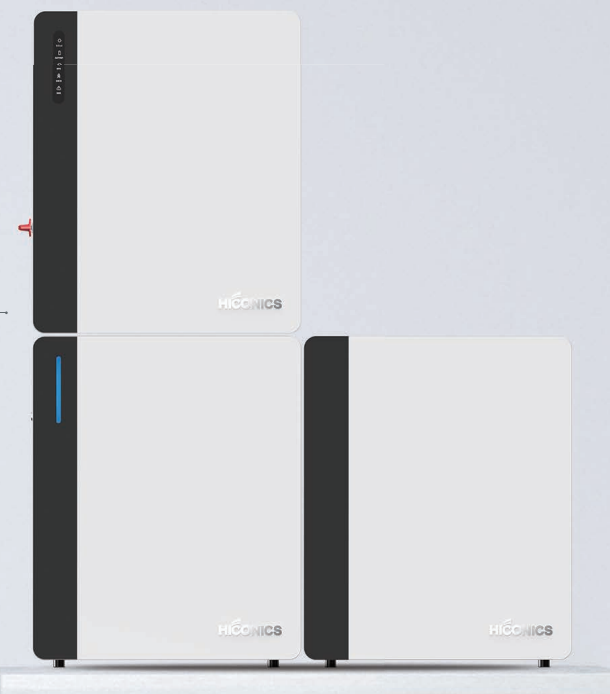
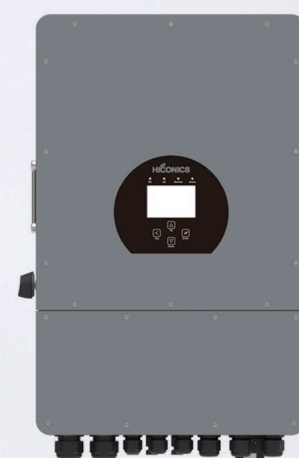
HiEnergy Series ESS
Single-phase/Three phase Solution



MINERGY Series ESS
Single-phase/Three phase Solution

SPLIT-TYPE SOLUTION

WISDOM Series ESS
Three phase Solution



ESSENTIAL Series ESS
Three phase Solution

MINERGY SERIES ESS

SINGLE-PHASE/THREE-PHASE ALL-IN-ONE SOLUTION

Hiconics MINERGY Series ESS is an ALL-IN-ONE solution with compact and minimalist design that installs easily and requires minimum maintenance. Our MINERGY series with CATL battery modules can be flexibly adapted to single-phase and three-phase inverters to meet the needs of different areas of the grid into the home.

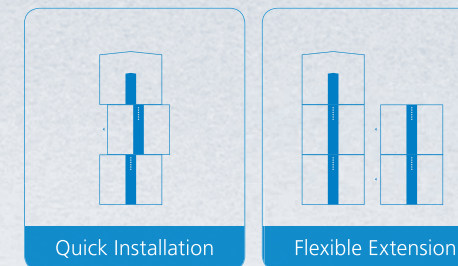
IN THIS SOLUTION GUIDE,
YOU WILL GET INFO ABOUT

MINERGY-S.
Single phase Solution

MINERGY-T
THREE-PHASE SOLUTION

Battery Module

Lego-style modular design, easy installation and expansion to meet different requirements.



Battery Type.
CATL LFP battery

Protection Level
IP65

Cycle Life
6,000

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		
Cycle Life	6,000cycle	Safety(Cell)	Pack: IEC/EN 62619;UN38.3 Cell: IEC/EN 62619;UN38.3;UL1973

MINERGY-S

All-In-One Energy Storage System
CATL Battery Solution



Security

CATL LFP battery
IP65 protection level: support outdoor installation
No capacity reduction at altitude of 2500m

Comfort of Use

≤ 24 decibels: quieter sound to sleep tight
Open API, support powerful internet applications
Global cloud platform & Mobile APP anytime and anywhere with one click

Functional Capability

With UPS, electrify your home seamlessly
Standby self-loss consumption ≤ 2W
Maximum efficiency: 97%
PV charging with max. access of 6.5kW
Battery can be expanded to 20kWh

Hybrid Inverter Model **HEC-S 5K**

PV String Input	
Max. DC Voltage	580V
Nominal Voltage	400V
MPPT Voltage Range	80V-560V
Start Voltage	130V
Number of MPP Tracker	2
Strings Per MPP Tracker	1
Max. Input Current Per MPPT	15A
Max. Short-circuit Current Per MPPT	18A
AC Output (Grid)	
Nominal AC Output Power	5000W
Max. AC Apparent Power	7360VA (from grid)
Max. AC Output Power	5000W ¹
Nominal AC Voltage	230Vac
AC Grid Frequency Range	50 / 60Hz±5Hz
Max. Output Current	22A ²
Max. Input Current	32A
Power Factor (cosΦ)	0.8leading-0.8lagging
THDi	<3%
Battery Input	
Battery TypeL	FP (LiFePO4)
Nominal Battery Voltage	48V
Charging Voltage Range	40-60V
Max. Charging Current	100A
Max. Discharging Current	100A
Battery Capacity	100-400Ah
Charging Strategy for Li-ion Battery	Depend on the BMS
AC Output (Backup)	
Max. Output Apparent Power	5000VA
Peak Output Apparent Power	6900VA 10sec
Max. Output Current	20A
Nominal Output Voltage	230V
Nominal Output Frequency	50/60Hz
Output THDv (@Linear Load)	<3% (Linear Load)
Efficiency	
Max. PV Efficiency	97.6%
Euro. PV Efficiency	97.0%
Protection	
DC Switch	Bipolar DC Switch (125A/Pole)
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*610*250mm
Weight	37kg
Operating Temperature Range	-25℃~ +60℃
Noise (dB)	<25
Cooling Type	Natural Convection
Max. Operation Altitude	2000m
Operation Humidity	0~95% (No Condensation)
IP Class	IP65
Topology	Battery Isolation
Communication	RS485/CAN2.0/WIFI/4G
Display	LCD/APP
Certification & Standard	IEC/EN 62109-1&2;IEC/EN61000-6-1;IEC/EN61000-6-2;EN61000-6-3; IEC/EN61000-6-4;IEC/EN61000-3-11; EN61000-3-12;IEC60529;IEC 60068;IEC61683;IEC62116;IEC61727;EN50549-1; AS 4777.2;NRS 097;VDE-AR-N-4105;CEI0-21;G98;G99;C10/C11

*1. Nominal AC output power is 4999W for Australia and 4600W for Germany and South Africa

*2. Maximum output current is 21.7A for Australia and 20A for Germany and South Africa..

MINERGY-T

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



Hybrid Inverter Model **HEC-T 10B10**

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

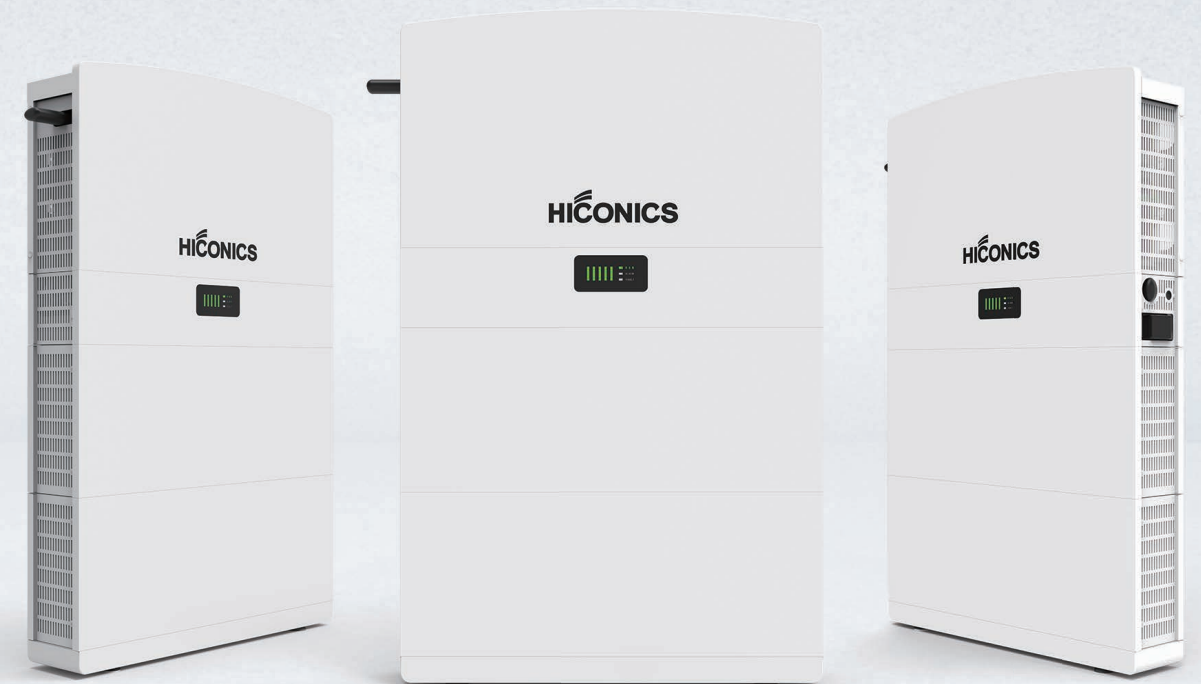
HIENERGY SERIES ESS

SINGLE- PHASE ALL-IN-ONE SOLUTION

Hiconics Single-phase HEC2 Series All-in-one energy storage system covers 5kW/5kWh~ 5kW/30kWh with high voltage battery module. It stores and manage energy to power your home in a reliable, efficient way.

Residential ESS

Single-phase All-in-one Solution



-25° C~60° C

Operation Temperature



100%

Pre-installation of internal cable



IP65

Protection Level

Lego-Sytle installation

Pre-installation of battery cable True Lego-style installation, free from internal wiring

Efficient

High voltage system, Higher charging & discharging energy conversion efficiency

Highly adaptable

-25° C ~ 60° C operation temperature, Equipped with internal temperature regulation system"

Model	HEC2-S3.6Hr2	HEC2-S5Hr2	HEC2-S6Hr2
PV Input			
Max.PV array power[W]	4940	6500	7800
Max.DC voltage[V]	500		
Nominal DC operating voltage[V]	300		
Max.input current(A/B)[A]	15/15		
Max.short circuit current(A/B)[A]	18/18		
Mppt voltage range[V]	100-480		
Start operating voltage[V]	120		
No.of MPP tracks/String per MPP tracker	2/2		
BAT Input			
Battery voltage range[V]	85-400		
Recommended battery voltage[V]	200		
Nominal charge/discharge current[A]	25		
Communication interfaces	RS485/CAN		
Reverse connect protection	Yes		
AC Grid Input			
Max.apparent AC power[W]	7600(Bypass3800 +Charge3800)	10000(Bypass5000 +Charge5000)	12000(Bypass6000+Charge6000)
Max.AC current[A]	33	43	52
Nominal grid voltage[V]	230		
Nominal grid frequency[Hz]	50/60		
AC Grid Output			
Nominal AC power[W]	3800	5000	6000
Nominal grid voltage[V]	230		
Nominal grid frequency[W]	50/60		
Nominal AC current[A]	16.5	21.7	26
Displacement power factor	-0.8-0.8		
I.THD[%]	<3@Rated power		
EPS Output			
EPS Nominal power[W]	3800	5000	6000
EPS Nominal voltage[V], frequency[Hz]	230, 50/60		
EPS Nominal current[A]	16.5	21.7	26
EPS peak apparent power[W]/Duretion[s]	4750/10	6250/10	7500/10
EPS changeover time[ms]	<20		
V.THD[%]	<3@Resistive Load		
EFFICIENCY			
MPPT efficiency[%]	99.9		
Euro efficiency[%]	96.8		
Max efficiency[%]	97.6		
Battery charge/discharge efficiency[%]	97.6(PV-BAT), 96(BAT-AC)		
ENVIRONMENT LIMIT			
Degree of protection	IP65		
Operating temperature range[℃]	-20-+60(derating at +45)		
Max.operation altitude[m]	<2000		
Humidity	0-100%		
Storage temperature[℃]	-20-60		
Typical noise emission[dBA]	<40		
DIMENSION AND WEIGHT			
Dimension (W*H*D) [mm]	800*450*160		
Weight[KG]	32		
Cooling concept	Natural		
Topology	Non-isolated		
Communication interfaces	WIFI/CAN/RS485		
HMI	APP		
Standard warranty[years]	5		
STANDARD			
Safety	IEC/EN 62109-1&2, IEC62040-1		
EMC	EN61000-6-1, EN61000-6-2, EN61000-6-3		
Certification	EN50549-1/G99/CEI021/VED4105/SAA		
Remark: Battery charging current is limited 25A and power is limited 6000W.			

MODEL	HEC2-BHP10r2
Component	Base+BMS+2*Module
Voltage[V]	204.8V
Recommend Operating voltage range[V]	185.6-224
Battery Module	Module*2
Nominal Capacity[Ah]	50
Total energy[kWh]	10.24
Usable energy[kWh]	9.2
Battery roundtrip efficieny	94%
Nominal power [kW]	5.12
Maximum charge/discharge current[A]	25
Cycle life	4000 Cycles
Expected life time	10 Years
Available discharge/charge temperature range	-20℃ to 55℃/ 0℃ to 55℃
	-20℃ to 55℃/ -20℃ to 55℃(Build-in heating function)
Storage temperature	-20℃ to 50℃ (3 months)
	0℃ to 40℃ (1 year)
Humidity	0~100%
Altitude	Below 3000m
Protection	IP65
System to Inverter	RS485/CAN2.0
Battery to battery / BMS	CAN2.0
Master control LED Indicator Working mode	LED
Master control Capacity indicator	5LED (20%, 40%, 60%, 80%,100%)
Switch on/off	Button*1+breaker*1
Certificate	CE,IEC62619,IEC63056,IEC60529,IEC61000,UN38.3
Hazardous materials classifcation	Class 9
Weight[kg]	124
External dimensions(W*H*D) (mm)	800*820*160
Remark	1 Series

WISDOM SERIES ESS

THREE-PHASE SOLUTION

Hiconics Three-phase ESS is an integrated battery system that stores your solar energy for backup protection. The system automatically recharges with sunlight to keep your appliances running for days and when the grid goes down your power stays on. Make it an affordable, tailorable & hassle-free choice for your family.

Residential ESS

Three-phase Wisdom Solution



Hiconics Three-phase residential energy storage solution covers 6.9 ~ 69 kWh. It is available for DC-coupling, AC-coupling and hybrid-coupling connection. This range is predominantly designed for low-temperature area with higher protection requirements and achieving your maximum energy independence.

-20° C

Operation Temperature

69kWh

Max. Battery Capacity

IP65

Protection Level



Reliable

- Adopt the safest LFP battery
- Modular design, no exposed wiring
- No fear of extreme cold weather



Elegant

- Easy to scale, meeting different family needs
- Minimalist design, blending in all decoration style



Smart

- Intelligent monitoring system
- Automatic battery management system



Safety

Powered by the safest LFP cells
No toxic metals or caustic materials
Cycle life>6000 times

Handiness

No heavy metals
Modular design for quick installation
Support wall/floor mounting

High Efficiency

More usable power:
90%DOD
Less self consumption

Model	HEC2-M(S)P69r1
Nominal Voltage	96V
Operating Voltage	76.5-106.5V
Battery Type	LFP (Li-ion)
Nominal Capacity	6.9kWh
Usable Capacity	6.2kWh
Faradic Charge Efficiency	99%
Battery Roundtrip Efficiency	95%
Max Power	4.8kW
Recommend Charge/Discharge Current	36A
Max Charge/Discharge Current	50A
Cycle Life [90% DOD]	>6000 Cycles
Available Operating Temperature Range	-20 - 50℃
Humidity	0 - 95%
Altitude	Below 2000m
Protection	IP65
System to Inverter	CAN2.0
Battery to Battery/BMS	CAN2.0
Data Collection Port /FW UPDATE	RS485
Master Control Working Mode Indicator	1 LED
Master Control Capacity Indicator	6 LED (10%, 25%, 40%, 60%, 80%,100%)
Battery Module LED Reset	2 LED
Switch ON/OFF	Button*1 + Breaker*1
Safety	CE, TUV(IEC62619), ROHS, REACH
UN Number	UN3840
Hazardous Materials Classification	Class 9
Transport Testing Requirement	UN38.3
Dimension(L*W*H)	540*190*640mm
Weight	65kg



Lower Noise
25db

Max. Efficiency
98.5%

MPPT Voltage Range
180~850V



Friendly

Support diesel generator access
Support full power discharge
Automatic management of battery charge & discharge



Flexible

Support multiple operating modes
UPS for the important loads

	HEC1.5-T6Hr2	HEC1.5-T8Hr2	HEC1.5-T10Hr2	HEC1.5-T12Hr2	HEC1.5-T15Hr2
Model					
Ingress Protection	IP65				
Operating Temperature Range	-35~60℃				
Relative Humidity	0~100%				
Operating Altitude	4000m(Derating above 2000 m)				
Cooling	Natural Convection				
Noise Emission	≤25dB				
Installation	Wall Mounted				
EMC	IEC/EN 61000-6-1:2019, IEC/EN 61000-6-2:2019, IEC/EN 61000-6-3:2021, IEN/EN 61000-6-4:2019, IEC/EN 61000-3-2:2019/A1:2021, EN 61000-3-3:2013/A2:2021, IEC/EN 61000-3-11:2019, EN 61000-3-12:2011				
Grid Regulation	Europe: EN 50549-1:2019/AC:2019, Poland:EN50549-1:2019/Rfg:2016/NC Rfg:2018/PTPiREE:2021, Germany:VDE-AR-N 4105:2018 /DIN VDE V 0124-100(VDE V 0124-100):2020, South Africa:NRS 097-2-1:2017 Edition 2.1, UK:G99/1-6:2020, Spain:UNE217001:2020 /UNE217002:2020/NTS V2.1:2021-07, IEC61727:2004/IEC62116:2014/IEC61683:1999, Hungary:EN50549-1:2019/RFG:2016/Hungary				
Safety Regulation	IEC/EN62109-1:2010, IEC/EN62109-2:2011				
Interface					
HMI	LCD;APP				
BMS	RS485,CAN				
EMS	RS485				
Meter	RS485				
Supported Communication Interface	WIFI / GPRS / 4G				

	HEC1.5-T6Hr2	HEC1.5-T8Hr2	HEC1.5-T10Hr2	HEC1.5-T12Hr2	HEC1.5-T15Hr2
Battery					
Max.Charging/Discharging Power	6600W	8800W	11000W	13200W	16500W
Battery Voltage Range	125~600V				
Battery Working Voltage Range	150~550V				
Max.Charging/Discharging Current	50A				
Rated.Charging/Discharging Current	40A				
Battery Type	Lithium and Lead Acid Battery				
Input DC (PV)					
Max.PV Input Power	9000W	12000W	15000W	18000W	22500W
Max. PV Voltage	1000V				
MPPT Voltage Range	180~850V				
Full Power MPPT Voltage Range	250~850V	330~850V	430~850V	510~850V	620~850V
Start-up Voltage	125V				
Max.Input Current per MPPT	13/13A	13/13A	13/13A	13/13A	20/20A
Max. Short-circuit Current	16/16A	16/16A	16/16A	16/16A	30/30A
Number of MPP Trackers	2				
MPPT Number/ Max. Input Strings Number	1/1	1/1	1/1	1/1	2/2
Rated Input Voltage	600V				
AC Output Data(On-Grid)					
Nominal Output Power to Grid	6000VA	8000VA	10000VA	12000VA	15000VA
Max. Apparent Power to Grid	6600VA	8800VA	11000VA	13200VA	16500VA
Max. Apparent Power from Grid	13200VA	17600VA	22000VA	26400VA	33000VA
Max. Apparent Current from Grid	19.1A	25A	31.8A	38.1A	47.6A
Nominal Output Current to Grid	8.7A	11.5A	14.4A	17.3A	21.7A
Max.Output Current to Grid	9.5A	12.7A	15.9A	19.1A	23.8A
Nominal Grid Voltage	380V/400V,3W+N+PE				
Nominal Grid Frequency	50Hz/60Hz				
THDI	< 2%				
AC Output Data(Back Up)					
Nominal Output Power	6000VA	8000VA	10000VA	12000VA	15000VA
Max. Apparent Power	6600VA	8800VA	11000VA	13200VA	16500VA
Nominal Output Current	8.7A	11.5A	14.4A	17.3A	21.7A
Max.Output Current	9.5A	12.7A	15.9A	19.1A	23.8A
Nominal Output Voltage	400V,3W+N+PE				
Nominal Output Frequency	50Hz/60Hz				
THDu	< 2%				
Max.Efficiency	97.9%	97.9%	98.2%	98.2%	98.5%
Europe Efficiency	97.2%	97.2%	97.5%	97.5%	97.6%
MPPT Efficiency	99.9%				
Max.Battery Charge/Discharge Efficiency	97.5%	97.5%	97.5%	97.6%	97.8%
Mechanical Parameters					
Dimensions (L*W*H)	540*220*650mm				
Weight	35kg	35kg	36kg	37kg	39kg

ESSENTIAL SERIES ESS

THREE-PHASE SOLUTION

Hiconics Three-phase ESS is your exclusive home solar energy assistant that reduces the reliance on grid, as to help storing energy & powering your home.



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

- Modular design, easy to expand (Max. 16 pcs parallel)
- BMS smart management system, remote & real-time control

Residential ESS

Three-phase Solution

Max. Capacity
80kWh

Cycle Life
>6000

DOD
>95%

Protection Level
IP54



Reliability

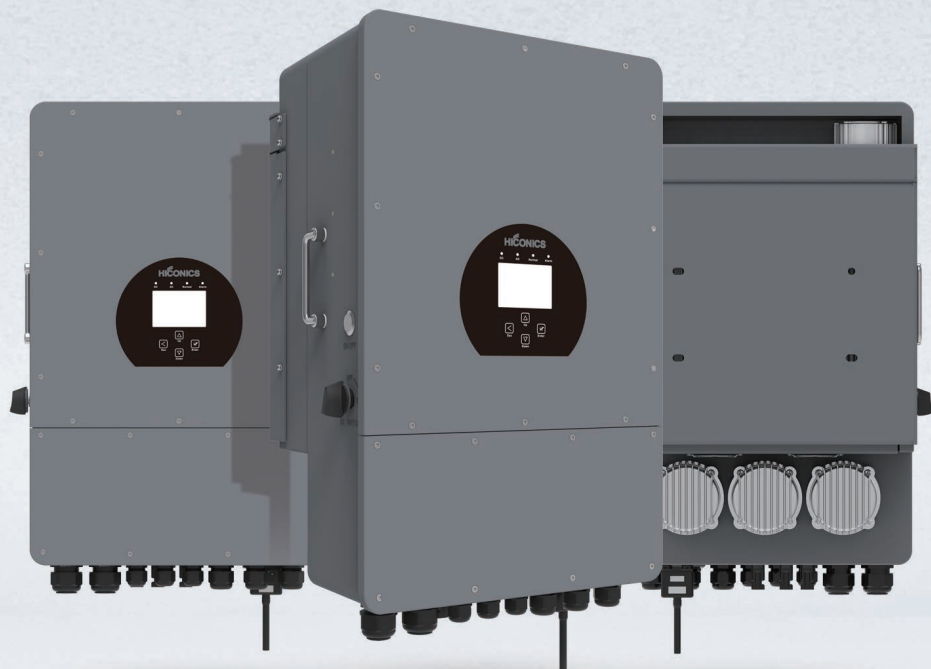
The safest type of LFP battery.
BMS intelligent control system
Lower voltage solution, less risk of electric arc occurrence



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			



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



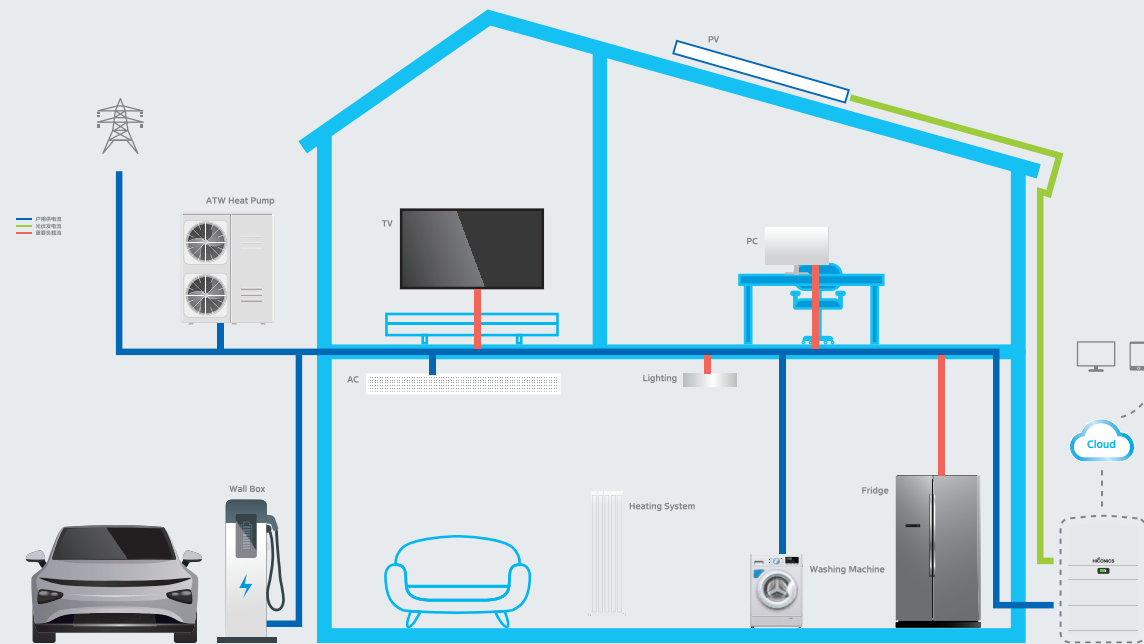
6 time periods for
battery charging/
discharging



Support storing
energy from diesel
generator

Model	HEC-T 15.36kWh(8kW)		HEC-T 20.48kWh(10kW)	HEC-T 20.48kWh(12kW)
Battery Input Data				
Battery Type	Lead-acid or Li-Ion			
Battery Voltage Range (V)	190	210	240	
Max. Charging Current (A)	190	210	240	
Max. Discharging Current (A)	190	210	240	
External Temperature Sensor	Yes			
Charging Curve	3 Stages / Equalization			
Charging Strategy for Li-Ion Battery	Self-adaption to BMS			
PV String Input Data				
Max. DC Input Power (W)	10400	13000	15600	
Rated PV Input Voltage (V)	550 (160~800)			
Start-up Voltage (V)	160			
MPPT Voltage Range (V)	200-650			
Full Load DC Voltage Range (V)	350-650			
PV Input Current (A)	13+13	26+13		
Max. PV ISC (A)	17+17	34+17		
Number of MPPT / Strings per MPPT	2/1+1	2/2+1		
AC Output Data				
Rated AC Output and UPS Power (W)	8000	10000	12000	
Max. AC Output Power (W)	8800	11000	13200	
AC Output Rated Current (A)	12.1	15.2	18.2	
Max. AC Current (A)	18.2	22.7	27.3	
Max. Continuous AC Passthrough (A)	45			
Peak Power (o_x005f grid)	2 time of rated power, 10 S			
Power Factor	0.8 leading to 0.8 lagging			
Output Frequency and Voltage	50/60Hz; 3L/N/PE 220/380, 230/400Vac			
Grid Type	THD<3% (Linear load<1.5%)			
DC injection current (mA)	Three Phase			
Efficiency				
Max. E_x005fciency	97.60%			
Euro E_x005fciency	97.00%			
MPPT E_x005fciency	99.90%			
Protection				
Integrated	PV Input Lightning Protection, Anti-islanding Protection, PV String Input Reverse Polarity Protection, Insulation Resistor Detection, Residual Current Monitoring Unit, Output Over Current Protection, Surge protection			
Certifications and Standards				
Grid Regulation	EN50549,AS4777.2,VDE0126,IEC61727,VDEN4105,G99,NBT32004, CEIO-21,NRS097,NBR16149/16150,RD1699			
Safety EMC / Standard	IEC62109-1/-2, EN61000-6-1,EN61000-6-2,EN61000-6-3,EN61000-6-4			
General Data				
Operating Temperature Range (°C)	-45~60°C , >45°C derating			
Cooling	Smrat cooling			
Noise (dB)	<45 dB			
Communication with BMS	RS485; CAN			
Weight (kg)	33.6			
Size (mm)	422W x 702H x281D			
Protection Degree	IP65			
Installation Style	Wall-mounted			
Warranty	5 years			

INTEGRATED HOME ENERGY MANAGEMENT SOLUTION



ENERGY FLOWS SEAMLESSLY & ENDLESSLY



WHEN THE SUN RISES, ESS BEGINS POWERING THE HOME.



AFTER SUNSET OR DURING OUTAGES, ESS WILL PROVIDE SEAMLESS BACKUP POWER AND AUTOMATICALLY BECOMING THE HOME'S MAIN POWER SOURCE.

TYPICAL CONFIGURATION CASES

HICONICS WILL TAKE INTO ACCOUNT THE SIZE OF THE HOUSE, THE ELECTRICITY CONSUMPTION, THE TYPE OF LOAD AND THE CONDITION OF THE GRID, AND OTHER FACTORS TO FLEXIBLY CUSTOMIZE AN INTEGRATED ENERGY MANAGEMENT SOLUTION FOR EACH HOME.

5kWp+10kWh
Available Roof Area: 27m²

PV Capacity: 5kWp
Energy Storage Capacity: 10kWh
Product Selection: Single-phase 5kW/10kWh
HMI: APP

10kWp+27.6kWh
Available Roof Area: 55m²

PV Capacity: 10kWp
Energy Storage Capacity: 20.7kWh
Product Selection: Three-phase 10kW/27.6kWh
HMI: APP

6kWp+13.8kWh
Available Roof Area: 30m²

PV Capacity: 6kWp
Energy Storage Capacity: 13.8kWh
Product Selection: Three-phase 6kW/13.8kWh
HMI: APP

12kWp+34.5kWh
Available Roof Area: 65m²

PV Capacity: 12kWp
Energy Storage Capacity: 34.5kWh
Product Selection: Three-phase 12kW/34.5kWh
HMI: APP

8kWp+20.7kWh
Available Roof Area: 45m²

PV Capacity: 8kWp
Energy Storage Capacity: 20.7kWh
Product Selection: Three-phase 8kW/20.7kWh
HMI: APP

15kWp+41.4kWh
Available Roof Area: 65m²

PV Capacity: 15kWp
Energy Storage Capacity: 41.4kWh
Product Selection: Three-phase 15kW/41.4kWh
HMI: APP