



SCAN TO REGISTER
YOUR WARRANTY
OR CLICK HERE



RESIDENTIAL INTEGRATION

- IP 65 Protection & -20~55degree operation range
- Midea Heat Pump Integration
- Super Slim, Space Saving
- Aesthetic & Harmonious Design
- Natural cooling, ultra-quiet



SMART CONTROL

- 3rd Party EMS Compatibility
- TOU(6 time schedule & support maximum power buying setting), saving more + VPP Ready
- Seamless On/Off Grid Transition



ULTIMATE SAFETY

- 5 Level cell Protection
- Advanced Thermal Management

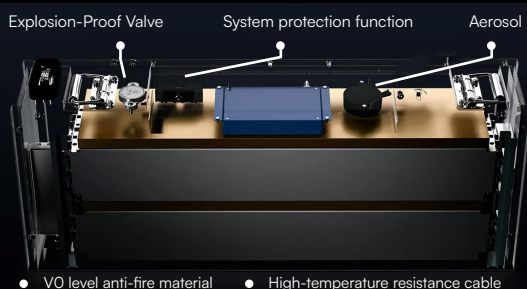


EASY INSTALLATION

- Stackable Modular Design
- Quick Plug, No Extra Wiring
- Installation time <20 min
- 5 min Fast Commissioning

HiEnergy All-in-one ESS Three Phase

5Layer Protection



Peace of Mind
10 years warranty
for PCS & battery packs



Slim Aesthetics
16 cm

HiEnergy All-in-One ESS

Three Phase



10kW

15kW

SKU	11990	12243
SKU (Starting Unit)	119901 (10kW + 10kWh Battery)	122431 (15kW + 15kWh Battery)
PV Input		
Max. PV array power[W]	(5250+5250)/6000	(7000+7000)/8500
Max. open circuit voltage[V]		1000
Max. input current(A/B)[A]		26/16
Max. short circuit current(A/B)[A]		30/20
Mppt voltage range[V]		180-950
Mppt voltage range at full load[V]	404-850	540-850
Start operating voltage[V]		200
No. of MPP tracks/String per MPP tracker(A/B)		2/(2/1)
BAT Input		
Battery voltage range[V]		180-650
Nominal charge/discharge current[A]		30/30
Communication interfaces		RS485/CAN
Reverse connect protection		Yes
AC Grid Input		
Nominal AC input power[VA]		20000
Max. AC input power[W]		20000
Nominal AC current[A]		27.8/29/30.3
Max AC current[A]		32
Nominal Apparent Power from Utility Grid (VA)		20000
Max. Apparent Power from Utility Grid (VA)		20000
Nominal grid voltage[V]		415/240~;400/230~;380/220V~;3L/N/PE
Nominal grid frequency[Hz]		50/60
AC Grid Output		
Nominal AC output power[W]	10000	15000
Max. AC output power[W]	11000	15000
Max apparent power to Utility Grid [VA]	11000	15000
Nominal grid voltage[V]		415/240~;400/230~;380/220V~;3L/N/PE
Nominal grid frequency[Hz]		50/60
Max output AC current[A]	16.7	24
Nominal output AC current[A]	14.5@230VAC	21.7@230VAC
Displacement power factor		-0.8~0.8
THDi[%]		<3@Rated power
EPS(Off-grid) Output		
Nominal EPS ouput power[W]	10000	15000
Max. EPS output apparent power[VA]	10000	15000
Nominal voltage[V], frequency[Hz]	230/400, 50/60	230/400, 50/60
Max output current[A]	16.1	24
Nominal output current[A]	14.5	21.7
Inrush peak Current(A)	65	65
Switching from Grid Connected Mode to Standalone Mode[ms]	<20	<20
Switching from standalone mode to network connected mode[ms]	>60s @VDE-AR-N 4105 2018-1	>60s @VDE-AR-N 4105 2018-1
THDv[%]	<3@Linear Load	<3@Linear Load
EFFICIENCY		
MPPT efficiency[%]		99.9
Euro efficiency[%]		96.1
Max. efficiency[%]		97.7
Battery charge/discharge efficiency[%]		98.5(PV-BAT), 97(BAT-AC)

10kW

15kW

SKU	11990	12243
SKU (Starting Unit)	119901 (10kW + 10kWh Battery)	122431 (15kW + 15kWh Battery)

Environment Limit

Ingress protection	IP65
Protection class	Class I
Pollution degree	PD3 (Outside)PD2 (Inside)
Over voltage category	Over voltage category Mains III Over voltage category PV\Battery II
Operating temperature range[°C]	-20~60(derating at 45)
Max. operation altitude[m]	<3000
Humidity	0-95%
Storage temperature[°C]	-40~70
Typical noise emission[dBA]	<45
Communication with BMS	CAN / RS485
Communication with Meter	RS485
Communication with Portal	RS485

Dimension And Weight

Dimension (W*H*D) [mm]	800(±2)*525(±2)*160(±2) (For Inverter Only)
Weight[KG]	52(±5)
Cooling concept	Smart Cooling
Topology	Non-isolated
Communication interfaces	Meter/CT,CAN,RS485,WIFI(External)
HMI	APP
DC Connector (mm^2)	4-6
AC Connector(mm^2)	6-10
Certification	EN50549-1/EN50549-10, IEC/EN62040-1, IEC/EN 61000-6-1/2/3/4, VDE-AR-N 4105, CEI 0-21, G98/G99, PTPIREE,2021-04; NC RFG; PSE, UNE 217002:2020,UNE 217001:2020, NTS 2019 V2.1, G100, TOR Erzeuger Type A V1.2, AS/NZS4777.2 : 2020+A1, NRS 097-2-1:2017

SKU	Model Number	Inverter Capacity	ENA Connect Direct Reference	G98 ENA Reference	G100 ENA Reference
11990 ----- 119901 (10kW + 10kWh Battery)	HEC2-T10.0Hr2-Eu	10kW	 SCAN TO VIEW ENA TYPE TEST OR CLICK HERE	HICON/15313/V1/A2	HICON/16081/V1/A1

SKU	Model Number	Inverter Capacity	ENA Connect Direct Reference	G99 ENA Reference	G100 ENA Reference
12243 ----- 122431 (15kW + 15kWh Battery)	HEC2-T15.0Hr2-Eu	15kW	 SCAN TO VIEW ENA TYPE TEST OR CLICK HERE	HICON/15772/V1/A2	HICON/16082/V1/A1

HiEnergy All-in-One ESS

5kWh High Voltage Battery Pack



HEC2-BHPxxr2 Series

Component	Base+BMS+2*Module	Base+BMS+3*Module	Base+BMS+4*Module
Nominal Voltage[V]	204.8	307.2	409.6
Maximum protection voltage[V]	233.6	350.4	467.2
Minimum protection voltage[V]	179.2	268.8	358.4
Battery module	Module*2	Module*3	Module*4
Nominal capacity[Ah]	50	50	50
Total energy[kWh]	10.2	15.3	20.4
Nominal power [kW]	5.12	7.68	10.24
Nominal charge/discharge current[A]	25		
Max. charge/discharge current[A]	25		
Cycle life	6000 Cycles (@0.5C,90%DOD,25°C,60%SOH)		
Expected life time	10 Years (60%SOH)		
Operating Temperature [°C]	-20 to 55 (derating above 45°C)		
Storage temperature[°C]	-20°C to 55°C (1 months) ; -20°C to 45°C (3 months) ; -20°C to 35°C(1 year)		
Altitude[m]	Below 2000m		
Protection	IP65		
System to Inverter	RS485/CAN2.0		
Battery to battery / BMS	Daisy chain		
Display Interface	LED		
Switch on/off	Button*1+Breaker*1		
Weight[kg]	124±6	179±8	179±8
External dimensions(W*H*D) (mm)	(800±20)*(840±30) *(160±20)	(800±20)*(1150±30) *(160±20)	(800±20)*(1460±30) *(160±20)
Remarks	1 Series		

HEC2-BHPxxr2 Series

Component	2*(Base+BMS+2*Module)	2*(Base+BMS+3*Module)	2*(Base+BMS+4*Module)
Nominal Voltage[V]	204.8	307.2	409.6
Maximum protection voltage[V]	233.6	350.4	467.2
Minimum protection voltage[V]	179.2	268.8	358.4
Battery module	Module*4	Module*6	Module*8
Nominal capacity[Ah]	100	100	100
Total energy[kWh]	20.4	30.6	40.8
Nominal power [kW]	10.24	15.36	20.48
Nominal charge/discharge current[A]	50		
Max. charge/discharge current[A]	50		
Cycle life	6000 Cycles (@0.5C,90%DOD,25°C,60%SOH)		
Expected life time	10 Years (60%SOH)		
Operating Temperature [°C]	-20 to 55 (derating above 45°C)		
Storage temperature[°C]	-20°C to 55°C (1 months) ; -20°C to 45°C (3 months) ; -20°C to 35°C(1 year)		
Altitude[m]	Below 2000m		
Protection	IP65		
System to Inverter	RS485/CAN2.0		
Battery to battery / BMS	Daisy chain		
Display Interface	LED		
Switch on/off	2*(Button*1+Breaker*1)		
Weight[kg]	248±12	358±16	468±20
External dimensions(W*H*D) (mm)	(1600±20)*(840±30) *(160±20)	(1600±20)*(1150±30) *(160±20)	(1600±20)*(1460±30) *(160±20)
Remarks	2 Series Parallel		



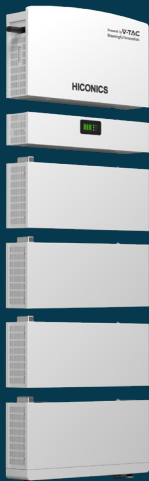
10kW | 10kWh

Inverter x 1
Control box x 1
Battery Pack x 2
Base x 1



10,15 kW | 15kWh

Inverter x 1
Control box x 1
Battery Pack x 3
Base x 1



10,15 kW | 20kWh

Inverter x 1
Control box x 1
Battery Pack x 4
Base x 1



10,15 kW | 20kWh

Inverter x 1
Control box x 2
Battery Pack x 4
Base x 2
2M Cable x 1



10,15 kW | 30kWh

Inverter x 1
Control box x 2
Battery Pack x 6
Base x 2
2M Cable x 1



10,15 kW | 40kWh

Inverter x 1
Control box x 2
Battery Pack x 8
Base x 2
2M Cable x 1