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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



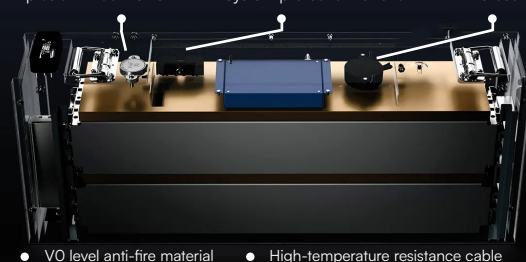
EASY INSTALLATION

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

HiEnergy All-in-one ESS Single Phase

5Layer Protection

Explosion-Proof Valve System protection function Aerosol



- VO level anti-fire material
- High-temperature resistance cable



Peace of **Mind**
10 years
warranty
for PCS & battery packs



Slim Aesthetics
16 cm

HiEnergy All-in-One ESS Single Phase



	3.6kW	5kW	6kW
SKU	11988	11989	11982
SKU (Starting Unit)	119881 (3.6kW + 5kWh Battery)	119891 (5kW + 10kWh Battery)	119821 (6kW + 10kWh Battery)
PV Input			
Max.PV array power[W]	3750/3750		
Max.DC voltage[V]	600 ^{~3}		
Nominal DC operating voltage[V]	360		
MPPT voltage range[V]	100-540		
MPP voltage range for nominal power[V] ^{~5}	137-480	185-480	225-480
Start up voltage[V]	120		
Max.input current(A/B)[A]	15/15		
Max.short circuit current(A/B)[A]	18/18		
No.of MPP tracks/String per MPP tracker	2/1		
BAT Side			
Battery voltage range[V]	85 ^{~4} -400		
Battery voltage range for nominal power[V]	160-400	225-400	250-400
Recommended battery voltage[V]	300		
Max.charge/discharge current[A] ^{~2}	25/25		
Communication interfaces	RS 485/ CAN		
Reverse connect protection	Yes		
AC Grid Side(On-grid)			
Nominal AC output power[W]	3680	5000 ^{~1}	6000 ^{~1}
Max.Output Power(W)	3680	5000 ^{~1}	6000 ^{~1}
Nominal Apparent Power Output to Utility Grid (VA)	3680	5000 ^{~1}	6000 ^{~1}
Max. Apparent Power Output to Utility Grid (VA)	3680	5000 ^{~1}	6000 ^{~1}
Nominal Apparent Power from Utility Grid (VA)	3680	5000	6000
Max. Apparent Power from Utility Grid (VA)	6000 ^{~6}	6000 ^{~6}	6000
Nominal grid voltage[V]	L/N/PE 230Va.c	L/N/PE 230Va.c	L/N/PE 230Va.c
Grid Voltage Range[V]	180-280	180-280	180-280
Nominal grid frequency[Hz]	50	50	50
AC Grid Frequency Range (Hz)	50±5	50±5	50±5
Max. output AC current to Utility Grid[A]	16A a.c	21.7A a.c	26.1A a.c
Rate output AC current to Utility Grid[A]	16A a.c	21.7A a.c	26.1A a.c
Rated AC Current From Utility Grid (A)	16A a.c	21.7A a.c	26.1A a.c
Max. AC Current From Utility Grid (A)	26.1 ^{~6} A a.c	26.1 ^{~6} A a.c	26.1A a.c
Power factor	~1 (Adjustable from 0.8 leading to 0.8 lagging)		
I.THd[%]	<3@Rated power		
EPS Side			
Back-up Nominal Apparent Power(VA)	3680	5000	6000
Nominal power[W]	3680	5000	6000
Max. Output Apparent Power without Grid (VA)	7500@10sec	7500@10sec	7500@10sec
Max. Output Apparent Power with Grid (VA)	7500@10sec	7500@10sec	7500@10sec
Nominal output voltage[V]	L/N/PE 230Va.c	L/N/PE 230Va.c	L/N/PE 230Va.c
Nominal output frequency[Hz]	50	50	50
Nominal Output Current (A)	16	21.7	26.1
Max.output current[A]	16	21.7	26.1
Max.output overcurrent protection[A]	32.6@10sec	32.6@10sec	32.6@10sec
Switching from Grid Connected Mode to Standalone Mode[ms]	<20	<20	<20
Output THD[%]	<5@Linear Load	<5@Linear Load	<5@Linear Load
EFFICIENCY			
MPPT efficiency[%]	99.9	99.9	99.9
Euro efficiency[%]	95.0	95.2	95.2
Max.efficiency[%]	96.5	96.7	96.8
Battery charge/discharge efficiency[%]	97.6(PV-BAT), 95.4(BAT-AC)	97.6(PV-BAT), 96.0(BAT-AC)	97.6(PV-BAT), 96.0(BAT-AC)

HiEnergy All-in-One ESS Single Phase



	3.6kW	5kW	6kW
SKU	11988	11989	11982
SKU (Starting Unit)	119881 (3.6kW + 5kWh Battery)	119891 (5kW + 10kWh Battery)	119821 (6kW + 10kWh Battery)

Environment Limit

Ingress protection	IP65
Protection class	Class I
Pollution degree	PD3
Over voltage category	III(MAINS),II (DC)
Operating temperature range[°C]	-20~+60(derating at +45)
Max.operation altitude[m]	<2000
Humidity	0-95%
Cooling Method	Natural Convection
User Interface	LED,APP
Communication with BMS	CAN/485
Communication with Meter	485
Communication with Portal	WIFI
Typical noise emission[dB]	<40
Dimension (W*H*D)[mm]	800*450*160 (For Inverter Only)
Weight[KG]	34 (For Inverter Only)
Topology	Non-isolated
Self-consumption at Night (W)	<25
DC Connector	MC4 (4~6mm2)
AC Connector	Quick Plug
Standard warranty[years]	10

Standard

Safety	IEC/EN 62109-1&2, IEC62477
EMC	IEC61000-6-1, IEC61000-6-3
Environment	IEC60529,IEC60068
Efficiency	IEC61683
Certification	EN50549-1,G99,G100,G98,CEI021,VDE4105,AS4777.2,NRS-097

*1:The grid feed in power for VDE4105 is limited 4600VA Only when the sum of the output power of photovoltaic and energy storage is greater than this power, the inverter can output this power.

*2:Battery charging current is limited 25A and power is limited 6000W.

*3:The max voltage of PV port is 540V,full power operation voltage should be less than 500V, 500V-540V for limited power operation;

*4:Battery port boot voltege must be greater than 95V.

*5:The power is 6000W according to the grid port.

*6:The value will appear when the grid is charing battery and support EPS load.

SKU	Model Number	Inverter Capacity	ENA Connect Direct Reference	G98 ENA Reference	G99 ENA Reference	G100 ENA Reference
11988	HEC2-S3.68Hr2	3.68kW	SCAN TO VIEW ENA TYPE TEST  OR CLICK HERE	HICON/14707/V1/A1		HICON/16016/V1/A1
11989	HEC2-S5.0Hr2	5kW			HICON/07340/V1/A9	HICON/16015/V1/A1
11982	HEC2-S6.0Hr2	6kW			HICON/14490/V1/A2	HICON/16017/V1/A1

HEC2-BHPxxr2 Series

Component	Base+BMS+1*Module	Base+BMS+2*Module	Base+BMS+3*Module
Nominal Voltage[V]	102.4	204.8	307.2
Maximum protection voltage[V]	116.8	233.6	350.4
Minimum protection voltage[V]	89.6	179.2	268.8
Battery module	Module*1	Module*2	Module*3
Nominal capacity[Ah]	50	50	50
Total energy[kWh]	5.1	10.2	15.3
Nominal power [kW]	2.56	5.12	7.68
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]	69±4	124±6	179±8
External dimensions(W*H*D) (mm)	(800±20)*(530±30) *(160±20)	(800±20)*(840±30) *(160±20)	(800±20)*(1150±30) *(160±20)
Remarks	1 Series		

HEC2-BHPxxr2 Series

Component	2*(Base+BMS+2*Module)	2*(Base+BMS+3*Module)
Nominal Voltage[V]	204.8	307.2
Maximum protection voltage[V]	233.6	350.4
Minimum protection voltage[V]	179.2	268.8
Battery module	Module*4	Module*6
Nominal capacity[Ah]	100	100
Total energy[kWh]	20.4	30.6
Nominal power [kW]	10.24	15.36
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
External dimensions(W*H*D) (mm)	(1600±20)*(840±30) *(160±20)	(1600±20)*(1150±30) *(160±20)
Remarks	2 series parallel	

System Expansion - Single Phase

Note: For expansion accessories, please enquire V-TAC UK Ltd.



3.6kW | 5kWh

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



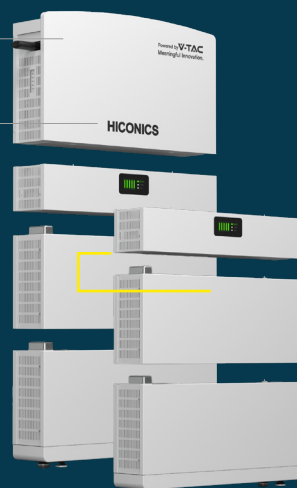
3.6, 5, 6kW | 10kWh

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



3.6, 5, 6kW | 15kWh

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



3.6, 5, 6kW | 20kWh

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



3.6, 5, 6kW | 30kWh

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