



HIENERGY SERIES ALL-IN-ONE RESS

Single-Phase Solution

ULTIMATE SAFETY

- 5 Level cell Protection
- Advanced Thermal Management

RESIDENTIAL INTEGRATION

- IP65 Protection & -20~55 degree operation range
- Home Appliance Power Integration
- Super Slim, Space Saving
- Aesthetic & Harmonious Design
- Natural cooling, Ultra-quiet

EASY INSTALLATION

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

SMART CONTROL

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

	HEC2-S3.68Hr2	HEC2-S3.8Hr2	HEC2-S5.0Hr2	HEC2-S6.0Hr2
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PV Input				
Max.PV array power[kW]			7.5(750/3750)	
Max.DC voltage[V]			600*3	
Nominal DC operating voltage[V]			360	
MPPT voltage range[V]			100-540	
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	
Max.charge/discharge current[A]*2			25/25	
AC Grid Side(On-grid)				
Nominal AC output power[W]	3680	3800	5000*1	6000*1
Max.Output Power(W)	3680	3800	5000*1	6000*1
Max. Apparent Power Output to Utility Grid (VA)	3680	3800	5000*1	6000*1
Nominal Apparent Power from Utility Grid (VA)	3680	3800	5000	6000
Max. Apparent Power from Utility Grid (VA)	6000*6	6000*6	6000*6	6000
Nominal grid voltage[V]	L/N/PE 230Va.c			
Nominal grid frequency[Hz]	50			
Max. output AC current to Utility Grid[A]	16A a.c	16.5A a.c	21.7A a.c	26.1A a.c
Max. AC Current From Utility Grid (A)	26.1A a.c*6	26.1A a.c*6	26.1A a.c*6	26.1A a.c
Power factor	~1 (Adjustable from 0.8 leading to 0.8 lagging)			
I.TH[D%]	<3@Rated power		<5@Rated power	
EPS Side				
Nominal power[W]	3680	3800	5000	6000
Max. Output Apparent Power without Grid (VA)			7500@10sec	
Nominal output voltage[V]	L/N/PE 230Va.c			
Nominal output frequency[Hz]	50			
Nominal Output Current (A)	16	16.5	21.7	26.1
Max.output current[A]	16	16.5	21.7	26.1
Max.output overcurrent protection[A]	32.6@10sec			
"Switching from Grid Connected Mode to Standalone Mode[ms]"	<20			
Output THD[%]	<5@Linear Load			
EFFICIENCY				
MPPT efficiency[%]	99.9			
Euro efficiency[%]	95.0	95.0	95.2	95.2
Max. efficiency[%]	96.5	96.5	96.7	96.8
Battery charge/ discharge efficiency[%]	97.6(PV-BAT) 95.4(BAT-AC)	97.6(PV-BAT) 95.4(BAT-AC)	97.6(PV-BAT) 96.0(BAT-AC)	97.6(PV-BAT) 96.0(BAT-AC)
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			
Weight[KG]	34			
Topology	Non-isolated			
Self-consumption at Night (W)	<25			
DC Connector	MC4 (4~6mm2)			
AC Connector	Quick Plug			
Standard warranty[years]	10			

"Remark:

- *1:The grid feed in power for VDE4105 is limited 4600VA.
- *2:Battery charging current is limited 25A and power is limited 6000W.
- *3:The machine may be damaged if PV port exceeds this voltage, full power operation voltage should be less than 480V, 480V-540V for limited power operation.
- *4:Battery port boot voltege must be greater than 95V.
- *5:The power is 6000W accordting to the grid port.
- *6:The value will appear when the grid is charing battery and support EPS load.