

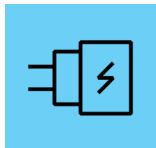


BE.HUIS ESS HYB-M2

RESIDENTIAL ENERGY STORAGE SYSTEM



HYBRID INVERTER



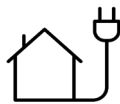
BATTERY CHARGER



GOTION (VOLKSWAGEN) LITHIUM-ION BATTERY



10-YEAR PRODUCT WARRANTY



SCALABLE SOLUTION FOR OPTIMISED CONSUMPTION

Scalable storage capacity from 5.37 kWh up to 21.50 kWh to suit the specific energy consumption.



SMART DESIGN

Modular design for easy and fast installation, remote control operated hybrid system with PV inverter, lithium-ion battery and battery charger.



REMOTE MAINTENANCE

Easy maintenance of the device due to early error detection function, web and mobile monitoring and a reliable service network.



SAFETY

Premium quality Samsung lithium-ion battery.



DURABILITY AND HIGH CYCLE STRENGTH

High durability with a 10-year product warranty and a performance to be maintained at least 80 % of the initial battery capacity after 10 years. Very short recharge time and a high discharge depth.



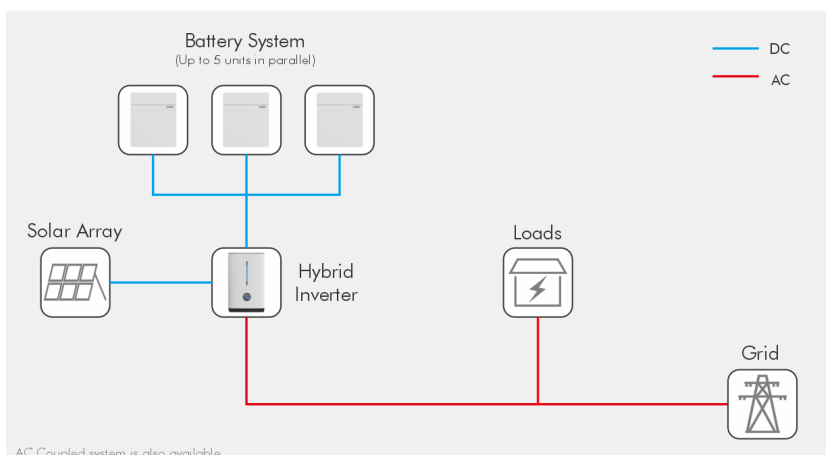
CYCLE STRENGTH

High charging cycle strength, deep discharge and short charging times.



BACKUP POWER FUNCTION

Thanks to the integrated backup power function, even in the event of power failure 3 kW continuous operation at the second output (switchover time max. one minute).



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INVERTER MODEL	HYB-3000	HYB-3680	HYB-5000
AC OUTPUT @ GRID			
AC Input Voltage/Frequency	186 ≈ 264Vac/ 50 or 60Hz		
Nominal AC Power	3000W	3680W	5000W
Nominal AC Current	13.0A	16.0A	21.7A
THD of AC Current	<3%		
AC OUTPUT @ OFF GRID			
AC Output Voltage / Frequency	230Vac / 50 or 60Hz, Single Phase		
Continuous Output Power (@25C)	3kVA	3.68kVA	5kVA
AC Output Current	13.0A	16.0A	21.7A
Peak Power	1.1 x Pnom, 10 sec; 1.5 x Pnom, 100 ms		
Power Factor	0.8 inductive to 0.8 capacitive		
Waveform	Pure Sinusoidal Wave		
THD of AC Voltage	<3% with Resistive Load		
SOLAR			
Max. PV-generator power	3300W	4000W	5400W
Max. PV voltage	550V		
MPPT voltage range	125-500 V		
Max. PV current	12A	10/10A	10/10A
Max. Short Circuit Current	15A	14/14A	14/14A
Strings per MPP Tracker	2	1	1
Number of MPP Trackers	1	2	2
Galvanic Isolation for PV Modules	Transforemerless		
BATTERY			
Battery Type	Lithium Battery		
Battery Voltage	40≈60V		
Galvanic Isolation for Battery	YES		
Max Charge Current	60A	60A	100A
BMS Communication	CAN/RS485		
Protection	Over Voltage, Under Voltage, Over Current, Short Circuit, Over Temperature		
EFFICIENCY			
MPPT Efficiency	99.90%		
Euro Efficiency	96.50%		
Max. Efficiency	97.80%		
Battery Charge Efficiency	95%		
GENERAL DATA			
Dimensions (L*W*H) [mm]	601*435*160	675*435*160	
Net Weight [kg]	27kg	29kg	34kg
Mounting Information	Wall mount		
Operating Temperature	-20C to +60C(up 45C		
Relative Humidity	95%, no condensation		
Site Altitude	Up to 2000m above sea level without derating		
IP Protection Type	IP 65		
Cooling Concept	Free convection		
BATTERY MODEL	HYB-5.3	HYB-10.7	
ELECTRICAL DATA			
Cell Type	LFP		
Total Energy	5.37 kWh	10.75 kWh	
Max. Depth of Discharge	90%		
Recommended Depth of Discharge	80%		
Nominal Voltage	51.2 V		
Operating Votlage Range	40-58.4 V		
Nominal Capacity	105Ah	210Ah	
Max. Charge Current	50A	100A	
Max. Disharge Current	100A	100A	
Max. Paralell Number	5 units		
GENERAL DATA			
Mounting information	Wall mount / Ground mount		
Communication	CAN / RS485		
Operating Temperature	0≈45C charge / -20≈55C discharge		
Dimension	520*380*190 mm	520*620*190 mm	
Weight	45 kg	85 kg	
IP Protection Type	IP21		

Note: Installation instructions must be followed. See the installation and operating manual or contact our technical service department for further information on approved installation and use of this product.

Generate Bv

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