

Single Phase

STORAGE SYSTEM

PRODUCT MODEL

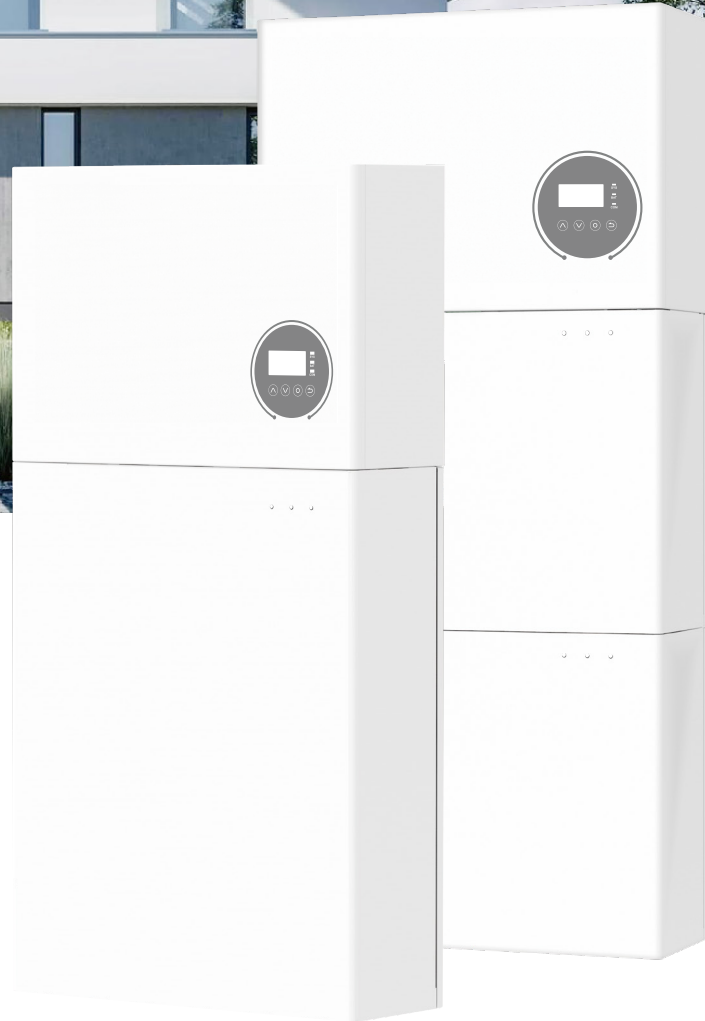
INVERTER

■ MÄC-INH6K

+

BATTERY

■ MÄC-BHV-4.8S / MÄC-BHV-9.6P



HIGH PERFORMANCE

- 166% PV over management;
- 200% backup overload capacity, 50A battery current;
- Max. efficiency 97.3%, Battery efficiency 97%;
- Load monitoring accuracy 10W, Battery discharging threshold 10W.



HIGH RELIABILITY

- UPS level redundant protection against backup load breakdown;
- Three-level firmware and two-level hardware battery protection;
- Multiple temperature monitoring, delicate thermal management.



HIGH INTELLIGENCE

- Internal EMS optimizes home energy supply automatically;
- PV production forecast;
- Built-in electric power service, FCAS, VPP, etc;
- Online monitoring, online diagnosis, online service.

PARAMETERS

INVERTER MODEL		MÄC-INH6K	
PV INPUT			
Max. PV Input Power	10kW		
Max. PV Input Voltage	580V		
MPPT Range	100~550V		
Max. Input Current	15A / 15A		
Max. Short Circuit Current	22.5A / 22.5A		
MPPT Trackers	2		
Strings Per MPPT Tracker	1 / 1		
AC PORT			
Rated Grid Output Power	6kVA		
Max. Grid Input Power	11.5kVA		
Rated Grid / Backup Voltage	220Vac / 230Vac		
Rated Grid / Backup Frequency	50/60Hz		
Surge Backup Power	11.5kVA / 11.5kW		
Rated Backup Power	6kVA		
THDi	<3%		
THDv	<3% (Linear Load) / <5% (Non-linear Load)		
DCV	<100mV		
Crest Ratio	3 : 1		
Transfer Time	<10ms		
EFFICIENCY			
Max. Efficiency	97.3%		
Max. Round Trip Efficiency	90%		
GENERAL DATA			
Operating Temperature Range	-20°C~60°C		
Topology	Transformerless		
Dimensions (W*H*D)	590×405×205mm		
Weight	20.5kg		
Load Monitoring	Meter / CT / Backup box		
External Communication	RS-485 / WIFI / 4G / Ethernet		
Grid Regulation	CEI 0-21, NRS 097-2-1, IEC 61727, IEC 62116, EREC G99		
Safety Regulation	IEC/EN 62109-1, IEC/EN 62109-2		
BATTERY MODEL		MÄC-BHV-4.8S	MÄC-BHV-9.6P
Battery Type	LFP		
Battery Capacity	4.8kWh	9.6kWh	
Usable Capacity	4.6kWh	9.1kWh	
Depth Of Discharge (DoD)	95%		
Nominal Battery Voltage	96V		
Operating Voltage Range	90~108V		
Max. Charging Current	50A		
Max. Discharging Current	50A		
Operating Temperature Range	Charge:0°C<T<50°C / Discharge:-10°C<T<50°C		
Cycle Lifetime	8000		
Series / Parallel	1~4 In Series	1~6 In Parallel	
Dimensions (W*H*D)	590×430×205mm	590×730×205mm	
Weight	53.4kg	85.7kg	
Communication	CAN / RS-485 (Optional)		
Safety Regulation	IEC 62619:2017, IEC 62040:2017		
Transportation	UN38.3		
SYSTEM			
Operating Altitude	≤3000m (>3000m Derating)		
Relative Humidity	0~95% (No Condensing)		
Protection Degree	IP65		
Cooling	Natural Convection		
Noise	<30dB		
Warranty	15 Years		
EMC	IEC/EN 61000-6-1, IEC/EN 61000-6-2, IEC/EN 61000-6-3, IEC/EN 61000-6-4		

Note: Specifications are subject to change without advance notice.

