



Three Phase

STORAGE SYSTEM

PRODUCT MODEL

INVERTER

- MÄC-INH8K
- MÄC-INH10K
- MÄC-INH12K

+

BATTERY

- MÄC-INH-4.8S



HIGH PERFORMANCE

- 200% PV over management;
- 200% backup overload capacity, 50A battery current;
- Max. efficiency 98%, Battery efficiency 96%;
- 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;
- Max. 6 Inverters in parallel to increase power availability.



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-INH8K	MÄC-INH10K	MÄC-INH12K
PV INPUT			
Max. PV Input Power	16kW	20kW	22.5kW
Max. PV Input Voltage	1100V		
MPPT Range	140~950V		
Max. Input Current	16A / 16A / 16A		
Max. Short Circuit Current	24A / 24A / 24A		
MPPT Trackers	3		
Strings Per MPPT Tracker	1 / 1 / 1		
AC PORT			
Rated Grid Output Power	8kVA	10kVA	12kVA
Max. Grid Input Power	16kVA	20kVA	22.5kVA
Rated Grid / Backup Voltage	220/380Vac, 230/400Vac, 3/N/PE		
Rated Grid / Backup Frequency	50/60Hz		
Surge Backup Power	16kVA / 16kW	20kVA / 20kW	24kVA / 24kW
Rated Backup Power	8kVA	10kVA	12kVA
THDi	<3%		
THDv	<3% (Linear Load) / <5% (Non-linear Load)		
DCV	<100mV		
Crest Ratio	3 : 1		
Transfer Time	<10ms		
EFFICIENCY			
Max. Efficiency	98.4%		
Max. Round Trip Efficiency	96%		
GENERAL DATA			
Operating Temperature Range	-20°C~60°C		
Topology	Transformerless		
Dimensions (W*H*D)	590×416×205mm		
Weight	25kg		
Load Monitoring	Meter / CT / Backup box		
External Communication	RS-485 / WIFI / 4G / Ethernet		
Grid Regulation	VDE-AR-N 4105:2018, G98, G99, C10/11:2021, NTS 631, RD647:2020 UNE 217002:2020, CEI 0-21, VDE 0126-1-1, NRS 097-2-1, AS/NZS 4777.2:2020, EN 50549-1		
Safety Regulation	IEC/EN 62109-1&2, IEC/EN 62477-1:2012		
BATTERY MODEL			
MÄC-INH-4.8S			
Battery Type	LFP		
Battery Capacity	4.8kWh		
Usable Capacity	4.6kWh		
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	10000		
Series / Parallel	1~6 In Series		
Dimensions (W*H*D)	590×430×205mm		
Weight	53.4kg		
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	20 Years (See Note 2)		
EMC	IEC/EN 61000-6-1, IEC/EN 61000-6-2, IEC/EN 61000-6-3, IEC/EN 61000-6-4		

Note1: Specifications are subject to change without advance notice.

Note 2:Warranty:10000 cycles or 20 years,whichever comes first.

