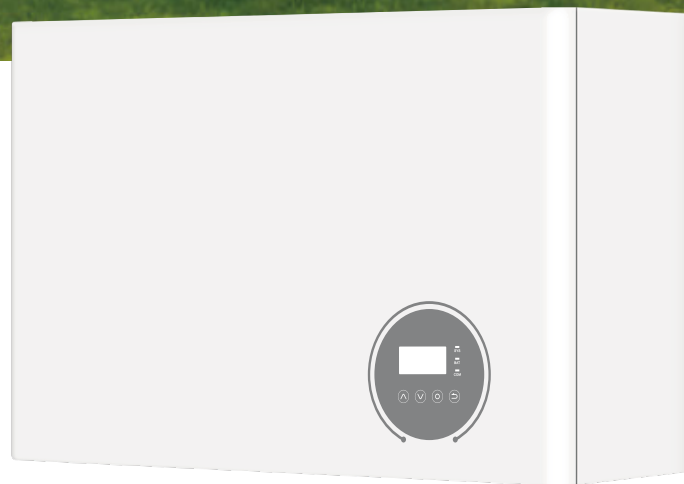


Three Phase HYBRID INVERTER

PRODUCT MODEL

- MÄC-INH4K
- MÄC-INH5K
- MÄC-INH6K
- MÄC-INH8K
- MÄC-INH10K
- MÄC-INH12K
- MÄC-INH15K



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-INH4K	MÄC-INH5K	MÄC-INH6K	MÄC-INH8K	MÄC-INH10K	MÄC-INH12K	MÄC-INH15K
BATTERY PORT							
Battery Type				Li-on / Lead-acid			
Battery Voltage Range				80~700V			
Max. Charging Current				50A			
Max. Discharging Current				50A			
PV INPUT							
Max. PV Input Power	8kW	10kW	12kW	16kW	20kW	22.5kW	22.5kW
Max. PV Input Voltage				1100V			
MPPT Range				140~950V			
Startup Voltage				120V			
Max. Input Current				16A / 16A / 16A			
Max. Short Circuit Current				24A / 24A / 24A			
MPPT Trackers				3			
Strings Per MPPT Tracker				1 / 1 / 1			
GRID PORT							
Rated Output Power	4kVA	5kVA	6kVA	8kVA	10kVA	12kVA	15kVA
Max. Output Current	6.7A	8.3A	10A	13.3A	16.7A	19.1A	23.9A
Max. Output Apparent Power	4kVA	5kVA	6kVA	8kVA	10kVA	12kVA	15kVA
Max. Input Power	8kVA	10kVA	12kVA	16kVA	20kVA	22.5kVA	22.5kVA
Rated Grid Voltage	220/380Vac, 230/400Vac, 3/N/PE						
Grid Voltage Range	180~270Vac						
Rated Grid Frequency	50/60Hz						
Power Factor	-0.8~+0.8						
THDi	<3%						
BACKUP PORT							
Surge Backup Power	8kVA	10kVA	12kVA	16kVA	20kVA	24kVA	30kVA
Rated Backup Power	4kVA	5kVA	6kVA	8kVA	10kVA	12kVA	15kVA
Rated Backup Voltage	220/380Vac, 230/400Vac, 3/N/PE						
Rated Backup Frequency	50/60Hz						
THDv	<3% (Linear Load) / <5% (Non-Linear Load)						
DCV	<100mV						
Crest Ratio	3 : 1						
Transfer Time	<10ms						
EFFICIENCY							
Max. Efficiency	98%	98%	98.2%	98.4%	98.4%	98.4%	98.4%
Europe Efficiency	97.5%	97.5%	97.7%	97.9%	97.9%	97.9%	98%
MPPT Efficiency	99.9%						
Max. Round Trip Efficiency	96%						
GENERAL DATA							
Operating Temperature Range	-20°C~60°C						
Relative Humidity	0~95% (No Condensing)						
Operating Altitude	≤3000m (>3000m Derating)						
Cooling	Natural Convection	Natural Convection	Natural Convection	Natural Convection	Natural Convection	Natural Convection	Intelligent Air Cooling
Noise	<30dB	<30dB	<30dB	<30dB	<30dB	<30dB	<45dB
Topology	Transformerless						
Dimensions (W*H*D)	590x416x205mm						
Protection Degree	IP65						
Weight	25kg						
Warranty	5 Years / 10 Years						
HMI&COMM.							
Communication With BMS	CAN / RS-485						
Load Monitoring	Meter / CT / Backup box						
External Communication	RS-485 / WIFI / 4G / Ethernet						
User Interface	LED / LCD						
CERTIFICATE							
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/62477-1:2012						
EMC	EC/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.

