



THREE-PHASE HYBRID INVERTER

H8000H-EU/H10000H-EU/H12000H-EU



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Datasheet

Specifications parameters

Model	H8000H-EU	H10000H-EU	H12000H-EU
PV Input data			
Max. recommended PV power	12000W	15000W	18000W
Max. DC voltage	1000V		
Start Voltage	120V		
MPP voltage range	140V-950V		
Nominal voltage	600V		
Number of independent MPPT	2		
Maximum number of input strings for MPPT	1/1		
Max. input current per string	16A/16A		
Max. short-circuit current per MPPT	22A/22A		
Backfeed current to the array	0A		
BAT data			
Type of battery	lithium ion battery		
Battery voltage range	120V~600V		
Nominal Battery voltage	500V		
Max charging and discharging current	45A		
Max charging and discharging power	8000W	10000W	12000W
Charging strategy	BMS instructions		
AC data(grid-connected)			
Rated AC output power	8000W	10000W	12000W
Max AC output apparent power	8800VA	11000VA	12000VA
Max AC input apparent power	16000VA	16000VA	16000VA
AC nominal voltage range	400V/230V, 380V/220V, 3L/N/PE		
AC nominal frequency	50/60Hz		
Max. AC output current	13.4A	16.7A	18.2A
Max. AC input current	24.3A	24.3A	24.3A
Power factor	~1(0.8leading - 0.8lagging)		

THDI @Full load	<3%		
AC inrush current	32A		
MAX. output overcurrent protection	56A		
AC maximum output fault current	56A		
AC Output(Off-grid)			
Rated AC output power	8000W	10000W	12000W
Max AC output apparent power	8800VA	11000VA	12000VA
Peak AC output power	16000 VA,10s	16000 VA,10s	16000 VA,10s
AC nominal voltage range	400V/230V, 380V/220V, 3L/N/PE		
AC nominal frequency	50/60Hz		
Max AC output current	13.4A	16.7A	18.2A
THDV @Linear load	<3%		
Efficiency			
Maximum efficiency	97.6%		
European efficiency	97%		
Max Battery discharge efficiency	97.0%		
MPPT efficiency	99.9%		
Protection			
DC switch	yes		
PV reverse polarity protection	yes		
BAT reverse protection	yes		
Output AC overcurrent protection	yes		
Output AC overvoltage Protection	yes		
Anti-islanding protection	yes (Active Frequency Drift)		
Residual current detection	yes		
Insulation resistance detection	yes		
surge protection	II (DC)/III(AC)		
General Data			
Topology	Transformerless		

Dimensions(W/H/D)	538*452*195mm
Weight	28.5kg
Protective Class	Class I
Installation	Wall mounted
Operating temperature range	-25~60°C
Relative humidity (Non-condensing)	0~100%
Altitude	≤4000m
Cooling	Free cooling
noise	<40dB
Protection class	IP65
Features	
DC connection	MC4
AC connection	5P Connector
Display	LED+APP
Monitor	RS485 / WIFI / GPRS
Warranty	5 years /10 years(optional)
Certification	
Safety	IEC/EN 62109-1, IEC/EN 62109-2, EN 62477-1:2022, IEC 60529
EMC	IEC/EN 61000-6-2, IEC/61000-6-4, IEC/EN 61000-2-2, CISPR11
Grid-connected	VDE 4105, AS 4777.2, EN 50549-1, EN 50438, RD 1699, RD 413, RD 647, UNE 217001, UNE 217002, NTS SEPE:2021, NRS-097, NC RfG:2016, PSE:2018, PTPiREE:2021