

H6000-EU

3.6-6kW Single-phase Hybrid Inverter

3.6kW/5kW/6kW

- 2 independent MPPTs with up to 200% PV oversizing
- Built-in EPS port for seamless backup power
- Intelligent integration of AC-coupled, DC-coupled and hybrid modes
- Support for parallel grid-connected operation of two inverters.
- Ultra-quiet operation (≤25 dB, sleep-level noise)
- 120A Lightning-fast charge & discharge (Continuous)
- All-round Inverter Protection :
 - ①PV Disconnection Protection
 - ②Ground Fault Protection
 - ③DC Bus Protection
 - ④Type II DC SPD & Type III AC SPD
- Integrated die-casting, waterproof connector design, IP65 dustproof & waterproof, no weather restrictions



Technical Specification

Model	H3600-EU	H5000-EU	H6000-EU
PV Input Specification			
Max. PV input power(W)	7200	10000	11400
Max. PV voltage(VDC)	550	550	550
Nominal voltage(VDC)	360	360	360
Startup voltage(VDC)	90	90	90
Minimum operating voltage(VDC)	90	90	90
MPPT work voltage range(VDC)	90~550	90~550	90~550
MPPT voltage range (full load, VDC)	130~480	165~480	200~480
Number of MPPT	2	2	2
Number of strings per MPPT	1	1	1
Max. short-circuit current per MPPT	20/20	20/20	20/20
Max. input current per MPPT (A)	16/16	16/16	16/16
Backfeed current to the array(A)	0	0	0
Battery Specification(Compatible with LiFeP04 battery or Lead acid)			
Battery voltage range (VDC)	42/58	42/58	42/58
Nominal voltage(VDC)	50	50	50
Min. full load voltage (VDC)	45	45	45
Max. charge/discharge current(A)	80/80	100/100	120/120
Max. continuous charge/discharge power(W)	3600	5000	6000
Grid Port Specification			
Nominal voltage(VAC)	230		
Nominal frequency(Hz)	50/60		
Rated output power(W)	3680	5000	6000
Rated output apparent power(VA)	3680	5000	6000
Max. output apparent power(VA)	3680	5000	6000
Rated output current(A)	16	21.7	26

Technical Specification

Model	H3600-EU		H5000-EU		H6000-EU	
Max. output current(A)	20		27		27	
Max. input power(W)	5520		7500		9000	
Max.input apparent power (VA)	5520		7500		9000	
Max. input current(A)	24		39		39	
Maximum output fault peak current(A)	75 (50us)		75 (50us)		75 (50us)	
Maximum output over current protection(A)	65		65		65	
Power factor range	0.8 cap~0.8 ind		0.8 cap~0.8 ind		0.8 cap~0.8 ind	
Backup Port Specification						
Nominal voltage(VAC)	230					
Nominal frequency(Hz)	50/60					
Rated output power(W)	3680		5000		6000	
Rated output apparent power(VA)	3680		5000		6000	
Max. output apparent power(VA)	3680		5000		6000	
Rated output current(A)	16		21.7		26	
Max. output current(A)	20		27		27	
Efficiency						
MAX. efficiency(%)	97.00		97.20		97.20	
European efficiency(%)	96.60		96.80		96.80	
MPPT efficiency(%)	≥99.5					
Protection & Function						
DC switch	Yes					
DC reverse polarity protection	Yes					
AC/DC surge protection	Yes					
Battery reverse protection	Yes					
AC short-circuit protection	Yes					
Ground fault monitoring	Yes					
Grid monitoring	Yes					

Technical Specification

Model	H3600-EU	H5000-EU	H6000-EU
Anti-islanding protection	Yes (refer to IEC-62116)		
Residual-current monitoring unit	Yes		
Insulation resistance monitoring	Yes		
Overvoltage class	OVC III[AC], OVC II[PV]		
General information			
Ingress protection	IP65		
Operation ambient temperature(°C)	-25~60, derating above 45		
Altitude(m)	<4000		
Relative humidity(%)	0~100		
Dimensions [W*H*D](mm)	568*472*188		
Weight(kg)	≈29.6		
Noise(dB)	≤25		
Protective Class	Class I		
Monitor	WIFI		
Isolated topology	PV to AC non-isolated, battery to PV/AC high frequency isolated		
Warranty*	10 Years		
Certification & Standard			
Grid code	VDE-AR-N 4105, VDE V 0124-100, AS/NZS 4777.2, NC RfG:2016, PSE:2018, PTPIREE:2021, VDE 0126-1-1, EN 50549-1 and grid code of DK, NL, FI, CEI 0-21, G98, G99, UNE 217001-2020, UNE 217002-2020, NTS SEPE:2021 (Type A), RD 1699:2011, NRS 097-2-1, IEC 61727, IEC 62116, TOR Type A/B:2022, OVE R25:2020, C10/C11:2021		
Safety	IEC/EN IEC/BS EN 62109-1:2010, IEC/EN/BS EN 62109-2:2011, AS 60947-3:2018, IP65		
EMC	IEC/EN IEC/BS EN IEC 61000-6-1, IEC/EN/BS EN IEC 61000-6-3, IEC 61000-2-2 & CISPR 11		

Warranty*: Refer to the product warranty terms for details