

H6000-EU

3-6kW Single-phase Hybrid Inverter

3kW/3.6kW/4kW/4.6kW/
5kW/6kW



- Supports over 190% PV input, Max 11.4 kW
- Intelligent integration of AC-coupled, DC-coupled and hybrid modes
- Integrated die-casting, waterproof connector design, IP65 dustproof & waterproof, no weather restrictions
- All-round Inverter Protection :
 - 1.PV disconnection protection
 - 2.Ground fault protection
 - 3.DC bus protection
 - 4.Type II DC SPD & Type III AC SPD
- Max. MPPT current reaching 16A for a single PV string
- 120A Lightning-fast charge & discharge (Continuous)
- Fanless design, sleep-level ultra quiet, running sound $\leq 25\text{dB}$
- Multiple work modes set via APP to customize energy and maximize efficiency

Technical Specification

Model	H3000-EU	H3600-EU	H4000-EU	H4600-EU	H5000-EU	H6000-EU
PV Input Specification						
Max. PV input power(W)	6000	7200	8000	9200	10000	11400
Max. PV voltage(VDC)	550	550	550	550	550	550
Nominal voltage(VDC)	360	360	360	360	360	360
Startup voltage(VDC)	90	90	90	90	90	90
Minimum operating voltage(VDC)	90	90	90	90	90	90
MPPT work voltage range(VDC)	90~550	90~550	90~550	90~550	90~550	90~550
MPPT voltage range (full load, VDC)	130~480	130~480	140~480	155~480	165~480	200~480
Number of MPPT	2	2	2	2	2	2
Number of strings per MPPT	1	1	1	1	1	1
Max. short-circuit current per MPPT	20/20	20/20	20/20	20/20	20/20	20/20
Max. input current per MPPT (A)	16/16	16/16	16/16	16/16	16/16	16/16
Backfeed current to the array(A)	0	0	0	0	0	0
Battery Specification(Compatible with LiFePO4 battery or Lead acid)						
Battery voltage range (VDC)	42/58	42/58	42/58	42/58	42/58	42/58
Nominal voltage(VDC)	50	50	50	50	50	50
Min. full load voltage (VDC)	45	45	45	45	45	45
Max. charge/discharge current(A)	66.7/66.7	80/80	87/87	100/100	100/100	120/120
Max. continuous charge/discharge power(W)	3000	3600	4000	4600	5000	6000
Grid Port Specification						
Nominal voltage(VAC)	230					
Nominal frequency(Hz)	50/60					
Rated output power(W)	3000	3680	4000	4600	5000	6000
Rated output apparent power(VA)	3000	3680	4000	4600	5000	6000
Max. output apparent power(VA)	3000	3680	4000	4600	5000	6000
Rated output current(A)	13	16	17.4	20	21.7	26

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Model	H3000-EU	H3600-EU	H4000-EU	H4600-EU	H5000-EU	H6000-EU
Max. output current(A)	20	20	24	24	27	27
Max. input power(W)	4500	5520	6000	6900	7500	9000
Max. input apparent power (VA)	4500	5520	6000	6900	7500	9000
Max. input current(A)	24	24	33	33	39	39
Maximum output fault peak current(A)	75 (50us)	75 (50us)	75 (50us)	75 (50us)	75 (50us)	75 (50us)
Maximum output over current protection(A)	65	65	65	65	65	65
Power factor range	0.8 cap~0.8 ind	0.8 cap~0.8 ind	0.8 cap~0.8 ind	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)	3000	3680	4000	4600	5000	6000
Rated output apparent power(VA)	3000	3680	4000	4600	5000	6000
Max. output apparent power(VA)	3000	3680	4000	4600	5000	6000
Rated output current(A)	13	16	17.4	20	21.7	26
Max. output current(A)	20	20	24	24	27	27
Efficiency						
MAX. efficiency(%)	97.00	97.00	97.10	97.10	97.20	97.20
European efficiency(%)	96.60	96.60	96.70	96.70	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					

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Anti-islanding protection	Yes (refer to IEC-62116)					
Residual-current monitoring unit	Yes					
Insulation resistance monitoring	Yes					
Overvoltage class	OVC III[AC], OVC III[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/GPRS					
Isolated topology	PV to AC non-isolated, battery to PV/AC high frequency isolated					
Warranty*	5 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 EN62109-1:2010, IEC/EN/BS EN62109-2:2011, AS 60947-3:2018, IP65					
EMC	IEC/EN IEC/BS EN IEC 61000-6-1, IEC/EN/BS EN IEC 61000-6-3, IEC61000-2-2 & CISPR11					

Warranty*: Refer to the product warranty terms for details