



LEAPTON
SOLAR

LEAP FROM JAPAN TO THE WORLD

■ ■ ■ SWITCH YOUR LIFE

ENERGY SOLUTIONS

SINGLE-PHASE HYBRID INVERTER

★ IP66 PROTECTION · TOUCH LCD

Dustproof and waterproof with intuitive color touchscreen for real-time monitoring.

★ 160A HIGH CURRENT

Delivers efficient charge/discharge performance and maximizes system output.

★ 6 SMART TIME PERIODS

6 programmable charge/discharge periods for precise energy management.

★ DIESEL GENERATOR SUPPORT

Enables direct generator-to-battery charging for hybrid systems.

★ 4MS SEAMLESS SWITCHING

Only 4ms transition ensures uninterrupted and stable power supply.



Version: 2026 V1

* For the most up-to-date information, please refer to the latest version of this datasheet.



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





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Parameters

MODEL	H6000-LS2-G5	H8000-LS2-G5
Battery Input Parameters		
Battery Type	Lithium, Lead-acid	Lithium, Lead-acid
Battery Voltage Range	40-60	40-60
Max. Charging Current (A)	120	160
Max. Discharging Current (A)	120	160
Lithium Battery Charge Management	Adaptive BMS system	Adaptive BMS system
PV Input Parameters		
Max. PV Input Power (W)	9000	12000
Max. PV Input Voltage (V)	510	510
Start-up Voltage (V)	80	80
PV Input Voltage Range (V)	125-510	125-510
MPPT Voltage Range (V)	100-425	100-425
MPPT Range at Full Load (V)	250-425	230-425
PV Nominal Input Voltage (V)	360	360
Max. Operating PV Input Current (A)	18+18	18+36
Max. PV Short-circuit Current (A)	27+27	27+54
Strings per MPPT	1+1	1+2
AC Input & Output Parameters		
Rated Output Active Power (W)	6000	8000
Max. Output Active Power (W)	6600	8800
Rated Output Current (A)	27.3/26.1	36.4/34.8
Max. Output Current (A)	27.3/26.1	36.4/34.8
Max. Fault Output Current (AC) (A)	60	80
Peak power (off-grid)	1.1 times of rated power,60s	1.1 times of rated power,60s
Grid Bypass Current (A)	50	50
Power Factor	0.8 leading to 0.8 lagging	0.8 leading to 0.8 lagging
THDi (at Full Load)	THD<3%	THD<3%
DCI	<0.5%In	<0.5%In
Switch Time(ON GRID TO OFF GRID)	4ms	4ms
Output Frequency	50/45-55, 60/55-65	50/45-55, 60/55-65
Output Voltage	220/230 0.85Un-1.1Un	220/230 0.85Un-1.1Un
Grid Type	L/N/PE	L/N/PE
Efficiency		
Max. Efficiency	97.4%	97.6%
Euro Efficiency	96.3%	96.5%
Battery-to-AC Max Efficiency	95.4%	95.5%
MPPT Efficiency	99%	99%
Protections		
DC Reverse Polarity Protection	YES	YES
Output Overcurrent Protection	YES	YES
Output Overvoltage Protection	YES	YES
Output Short Circuit Protection	YES	YES
Temmmal Protection	YES	YES
Leakage Current Monitoring	YES	YES
Insulation Resistance Detection	YES	YES
Anti-Islanding Protection	YES	YES
Overload Protection	YES	YES
Arc Fault Circuit Interrupter (AFCI)	Optional	Optional
RSD	Optional	Optional
DC Switch	YES	YES
Ground Detection	YES	YES
Surge Protection Level	TYPEII(DC/AC)	TYPEII(DC/AC)
User Interaction		
Display	LCD	LCD
Communication Interface	485+CAN	485+CAN
Monitoring Method	WIFI/Bluetooth	WIFI/Bluetooth
General Data		
Operating Temperature	-40°C to 60°C, derating >45°C	-40°C to 60°C, derating >45°C
Permissible Ambient Humidity	0-100%	0-100%
Permissible Altitude (m)	2000m	2000m
Noise (dB)	30dB	45dB
Protection Rating	IP66	IP66
Topology	Non-isolated	Non-isolated
Overvoltage Category	OVCI(DC),OVCI(AC)	OVCI(DC),OVCI(AC)
Dimensions	475±1×335±1×235±1mm	475±1×335±1×235±1mm
Weight	18kg	19kg
Container Capacity (pcs)	20GP: 288 40HQ: 832	20GP: 288 40HQ: 832
Cooling Method	Natural cooling	Smart fan
Installation method	Wall-mounted	Wall-mounted
Warranty	Standard 5 years, extended warranty	
Grid Regulation	IEC 62116,IEC 61727,IEC 61683,EN 50549	
Safety EMC/Standard	IEC/EN 61000-6-1/2/3/4,IEC/EN62109-1,IEC/EN 62109-2	

Packing List (Include)

No.	Picture	Description	Quantity
1		PV connector cable male end	3
2		PV connector cable female end	3
3		Option 1: WIFI data acquisition stick - Asia, Africa and Latin America/ Option 2: WIFI data acquisition stick - Europe	Option 1/ 2
4		CT	1
5		External NTC	1
6		Quick installation manual	1
7		Expansion screw	4
8		RJ45 connector	3
9		RNB open ground terminal	1
10		Peeping copper terminal	2
11		Barbed terminal	6
12		Ground screw	1
13		Three-way hexagon socket head screw	2
14		Accessories PE bag	5

Packing List (Optional accessories, Sold separately)

No.	Picture	Description	Quantity
1		Guide rail	1
2		Three-way hexagon socket head screw	2
3		Quick disconnect device	1
4		Terminal fastener	2
5		RSD power supply cable	1
6		Electricity meter	1
7		AFCl board	1
8		AFCl CT	2
9		3mm hole for arc support plate	1
10		Single-way hexagonal stud	2
11		Arc detection communication cable	1
12		Three-way eleven-point head screw	3
13		Three-way hexagon socket head screw	4