



LSHi

5000/6000/8000/10000/12000-HT

- Max. efficiency **98.2%**
- Max. DC/AC Ratio **150%+**
- Smart energy control supports using PV energy preferentially
- BMS system synergeticed supports longer battery life
- Natural cooling design
- Remote configuration and upgrade



* All pictures shown are for reference only, actual appearance may vary.

LINK YOUR SUSTAINABLE LIFE

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DATASHEET

Models	LSHI-5000HT		LSHI-6000HT		LSHI-8000HT		LSHI-10000HT		LSHI-12000HT	
PV INPUT DATA										
Max. PV power [W]	7500		9000		12000		15000		18000	
Max. input voltage [V]					1000					
Start up voltage [V]					145					
Nominal input votlage [V]					620					
MPPT voltage range [V]					150-850					
Max. input current [A]					16/16					
Max. short current [A]					20/20					
No. of MPP trackers					2					
No. of strings per MPP tracker					1/1					
BATTERY INPUT DATA										
Battery type					LFP (LiFePO4)					
Input voltage range [V]					160-800					
Max. dis-/charging current [A]* ^①					25/25					
Charging strategy for Li-ion battery					Self-adaption to BMS					
AC OUTPUT/INPUT (GRID)										
Nominal AC power [W]	5000		6000		8000		10000		12000	
Max. apparent AC power [VA]	5500		6600		8800		11000		13200	
Nominal active power from grid [W]	10000		12000		15000		15000		18000	
Max. apparent AC power from grid [VA]	11000		13200		16500		16500		20000	
Nominal grid voltage [V]					380/400					
Nominal grid frequency [Hz]					50/60					
Max. AC output current [A]	8.5		10.0		13.5		16.0		20.0	
Max. AC current from grid [A]	17.0		20.0		23.0		23.0		29.0	
Displacement power factor					>0.99 @Nominalpower (0.8ind-0.8cap)					
Total harmonic distortion (THDi, Nominal power)					<3%					
Grid connection					3W/N/PE					
AC OUTPUT DATA (BACK-UP)										
Nominal AC output power [W]	5000		6000		8000		10000		12000	
Peak apparent output power [VA]	10000		12000		15000		15000		15000	
Nominal output voltage [V]					380/400					
Nominal output frequency [Hz]					50/60					
Max. output current [A]	8.5		10.0		13.5		16.0		20.0	
Switch time [ms]					<10					
Total harmonic distortion (THDV, @linear load)					<3% @100% R Load					
EFFICIENCY										
MPPT efficiency [%]					99.9					
Max. efficiency [%]	98.00						98.20			
Euro efficiency [%]					97.30				97.40	
Charged efficiency@PV-battery [%]					98.50					
Dis-/charged efficiency@battery<->grid/load [%]					97.60					
PROTECTION										
Anti-islanding protection					Integrated					
DC input reverse polarity protection					Integrated					
Insulation resistor detection					Integrated					
Residual current monitoring unit					Integrated					
Over current protection					Integrated					
AC short protection					Integrated					
Over voltage protection					Integrated					
Surge protection					DC Type II, AC Type II					
Battery reverse protection					IntegNominal					
GENERAL DATA										
Dimensions (W*H*D) [mm]					425*351*200					
Weight [Kg]					22					
Noise emission [dB]					<40					
User Interface					LED&LCD					
DC connection type for PV					MC4					
Battery connection type					Sunclix					
AC connection type					Dedicated AC connector					
Communication interface					RS485/CAN (Inverter <-> BMS); RS485 (for Meter); WiFi/4G (Opt) (for Cloud)					
Cooling method					Natural					
Operating ambient temperature range [°C]					-25~+60					
Allowable relative humidity range [%]					0-100					
Max. operating altitude [m]					2000 (>2000 derating)					
Degree of protection					IP65					
Climatic category (IEC 60721-3-4)					4K4H					
Topology					No-isolated					
Power consumption at night [W]					<13					
STANDARD										
Safety&EMC&Grid					EN/IEC 62109-1/2, EN/IEC 61000-6-1-2/3/4, EN 61000-3-11/12, AS/NZS 61000.6.3/4, EN 55011, VDE-AR-N 4105, VDE V 0124-100					

① The actual charge and discharge current/power also depends on the battery.

- * All specifications are subject to change without notice.
- * All pictures shown are for reference only, actual appearance may vary.
- * Please visit Linsum website for the latest certificates.