



# LSLi

## 4600/5000/6000-60/120-LS

- Max efficiency **97.3%**
- Max. charge/discharge current **120A**
- Smart energy control increases the usage of PV energy
- BMS system synergeticed supports longer battery life
- Natural cooling design
- Compatible with lead-acid batteries and LFP battery energy storage systems
- Remote configuration and upgrade



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

### LINK YOUR SUSTAINABLE LIFE

Linsum GmbH [www.linsum.de](http://www.linsum.de) [info@linsum.de](mailto:info@linsum.de) +49-176-55580330 Hildesheimer Strasse 265 – 267, 30519 Hannover, Germany  
 Linsum Co., Ltd. [www.linsum.com](http://www.linsum.com) [service@linsum.com](mailto:service@linsum.com) +86-512-62818366 8 Chengwan Road, Suzhou Industrial Park, 215122 Suzhou, China



## DATASHEET

Models	LSLI-4600LS-60	LSLI-4600LS-120	LSLI-5000LS-60	LSLI-5000LS-120	LSLI-6000LS-60	LSLI-6000LS-120
<b>PV INPUT DATA</b>						
Max. PV power[W]				9000		
Max. input voltage[V]				550		
Start up voltage[V]				90		
MPPPT voltage range[V]				70 ~ 520		
Max. input current[A]				15/15		
Max. short current[A]				20 / 20		
No. of MPP trackers				2		
No. of strings per MPP tracker				1/1		
<b>BATTERY INPUT DATA</b>						
Battery type				LFP (LiFePO4) / Lead-acid		
Input voltage range[V]				40-60		
Nominal battery voltage[V]				48		
Max. dis-/charging current[A] * ①	60/60	120/120	60/60	120/120	60/60	120/120
Charging strategy for Li-Ion battery				Self-adaption to BMS		
<b>AC OUTPUT/INPUT (GRID)</b>						
Nominal AC power[W]	4600	4600	5000	5000	6000	6000
Max. apparent AC power[VA]	4600	4600	5500	5500	6000	6000
Max. AC output power (PF=1)	4600	4600	5500	5500	6000	6000
Nominal grid voltage[V]				220/230		
Nominal grid frequency[Hz]				50/60		
Max. AC output current[A]	22.0	22.0	25.0	25.0	27.2	27.2
Displacement power factor				> 0.99 @Nominal power (0.8 leading - 0.8 lagging adjustable)		
Total harmonic distortion(THDi, Nominal power)				<3%		
Grid connection				L/N/PE		
<b>AC OUTPUT DATA (BACK-UP)</b>						
Nominal AC output power[W]	3000	4600	3000	5000	3000	6000
Nominal output voltage[V]				230		
Nominal output frequency[Hz]				50/60		
Max. output current[A]	13.0	20.0	13.0	21.7	13.0	26.0
Switch time[ms]				10ms (typ) / 20ms (max)		
Total harmonic distortion(THDV, @linear load)				<3% @100% R Load		
<b>EFFICIENCY</b>						
Max. efficiency[%]				97.30%		
Charged/discharged efficiency@battery->grid/load				94.00%		
<b>PROTECTION</b>						
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		
<b>GENERAL DATA</b>						
Dimensions(W*H*D)[mm]				515*485*175		
Weight[Kg]	20	25	20	25	20	25
Noise emission[dB]				<35		
User Interface				LED+APP		
DC connection type for PV				MC4/H4		
Battery connection type				Dedicated DC connector		
AC connection type				Dedicated AC connector		
Communication interface				RS485/CAN (Inverter <-> BMS); RS485 (for Meter); Optional: WiFi/GPRS/LAN(for Cloud)		
Cooling method				Natural		
Operating ambient temperature range[°C]				-25 ~+60		
Allowable relative humidity range[%]				0~100		
Max. operating altitude[m]				4000m		
Degree of protection				IP65		
Topology				No-isolated		
<b>STANDARD</b>						
Safety&EMC				IEC62109-1&2, IEC62040-1, IEC62477-1, IEC 61727/62116		
Grid				VDE-AR-N4105, AS 4777.2, EN 50549-1, C10/11, G99, CEI 0-21, NRS 097-2-1, RD 1699/661/413, NTS		

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.