



SOLENSO

SINGLE PHASE HYBRID INVERTER

ISL_4600/5000/6000W-60, ISL_4600/5000/6000W-120



HIGH YIELD

- Max efficiency 97.3%, Battery efficiency 94%
- Max. Charge / Discharge Current 120A
- Reasonable energy control to increase the proportion of spontaneous use



HIGH RELIABILITY

- With BMS system to ensure high battery life
- Natural cooling design



INTELLIGENT MAINTENANCE

- Compatible with lead-acid batteries and lithium battery energy storage systems
- Remote configuration and upgrade

Model	ISL_4.6kW-60	ISL_4.6kW-120	ISL_5kW-60	ISL_5kW-120	ISL_6kW-60	ISL_6kW-120
Efficiency						
Max. efficiency (PV to AC)				97.3%		
Max. efficiency (BAT to AC)				94.0%		
Input (PV)						
MAX PV Power (W)				9000		
Max PV voltage (V)				550		
Max input current (input A/input B) (A)				15/15		
Max short current (input A/input B) (A)				20/20		
Start operating voltage (V)				90		
MPPT voltage range @full load (V)		200-480			230-480	
No. of MPPT trackers				2		
String per MPP tracker				1		
Input (BAT)						
Compatible battery type				Lithium-ion/Lead-acid		
Nominal battery voltage (V)				48		
Battery voltage range (V)				40-60		
Max. charge/discharge current (A)	60/60	120/120	60/60	120/120	60/60	120/120
Max. charge/discharge power (W)	3000/3000	5000/5000	3000/3000	5000/5000	3000/3000	6000/6000
Lithium battery charge curve				Self-adaption to BMS		
Output (Grid)						
Nominal AC output power (W)	4600	4600	5000	5000	6000	6000
Max. AC output apparent power (VA)	4600	4600	5500	5500	6000	6000
Max. AC output power (PF=1) (W)	4600	4600	5500	5500	6000	6000
Max. AC output current (A)	22	22	25	25	27.2	27.2
Rated AC voltage (V)				220		
AC voltage range (V)				150-300 (adjustable)		
Rated grid frequency (Hz)				50/60		
AC frequency range (Hz)				45-55/55-65 (adjustable)		
Grid connection				single phase		
Power factor				> 0.99 @rated power (adjustable 0.8 LG - 0.8 LD)		
THDI				<3%		
Output (Back up)						
Nominal output voltage (V)				230		
Nominal output frequency (Hz)				50/60		
Nominal output power (W)	3000	4600	3000	5000	3000	6000
Nominal output current (A)	13	20	13	21.7	13	26
Transfer time (ms)				10(typ) / 20(max)		
THDV				<3% @100% R Load		
Protection						
Protection category				Class I		
DC switch				Support		
Anti-islanding protection				Support		
AC overcurrent protection				Support		
AC short circuit protection				Support		
DC reverse connection				Support		
Surge Arrester				DC Type III, AC Type III		
Insulation detection				Support		
Leakage current protection				Support		
PV overvoltage category				II		
AC overvoltage category				III		
General						
Max. operation altitude (m)				4000		
Noise emission (dB)				<35		
Ingress protection degree				IP65		
Operating temperature range (°C)				-25~60		
Relative humidity (%)				0~100		
Cooling concept				Natural Cooling		
Mounting				Wall bracket		
Dimensions (W*H*D)				515*450*175mm		
Weight (kg)	20	25	20	25	20	25
PV connection way				MC4/H4		
Battery connection way				Dedicated DC connector		
AC connection way (grid & back up)				Dedicated AC connector		
HMI & COM						
Display				LED+APP		
Communication interface				RS485/CAN(for BMS), RS485, USB, DRM/RS485 (for Meter), Optional: WiFi/GPRS/Ethernet		
Certification						
Grid				VDE-AR-N4105, IEC 61727/62116, AS 4777.2, EN 50549-1		
Safety				IEC62109-1&2, IEC62040-1, IEC62477-1		
EMC				IEC61000-6-2/3		
Warranty (years)				5/10 (optional)		

Remarks:

- The range of output voltage and frequency may vary depending upon different grid codes.
- Specifications are subject to change without advance notice.