

LESSO

LSRTH Series Residential Hybrid Inverter (Single Phase)



Product Highlights

Safe and reliable

- Passed IEC/EN62109-1/- 2, IEC/EN62477-1
South Africa NRS097-2-1; 2017, IEC/EN 61000-6-1
IEC/EN 61000-6-3 test certification

User-friendly and flexible

- Support multiple parallel connection
- Support connection with diesel generator
- Compatible with lead-acid and lithium-iron battery

Economical

- Intelligent EMS management function
- Automatic on/off grid switching to ensure important loads operating during the grid network blackout



	LSRTH 3KTLL	LSRTH 3K6TLL	LSRTH 4KTLL	LSRTH 4K6TLL	LSRTH 5KTLL	LSRTH 6KTLL
Input Parameter (PV)						
Max. Input Power (kW)	4.6	4.6	6	6	7	7
Max. Input Voltage (V)	550					
MPPT Voltage Range (V)	125 - 500					
Max. Current per MPPT (A)	14					
Number of MPPT/ Number of String per MPPT	2/1					
Output Parameter (AC)						
Rated Output Power (kVA)	3	3.68	4	4.6	5	6
Max. Output Current (A)	13	16	17.4	20	21.7	26
Grid Voltage Range (V)	230 (176~270)					
Rated Grid Frequency (Hz)	50/60					
Power factor	0.99 leading~0.99 lagging					
THDi	< 2%					
Grid Type	L+N+PE					
Battery Parameter						
Battery Voltage Range (V)	40~58					
Max. Charging Voltage (V)	58					
Max. Charging/Discharging Current (A)	95/62.5	95/76.6	95/83.3	95/95.8	95/104.2	95/110
Battery Type	Lithium iron phosphate battery / Lead acid battery					
Communication	CAN, RS485					
Emergency AC Power Supply (EPS)	220-240 / 110-120 (Connect to split-phase transformer)					
Rated Output Power (kVA)	3	3.68	4	4.6	5	6
Rated Output Voltage (V)	230					
Rated Output Current (A)	13	16	17.4	20	21.7	26
Rated Output Frequency (Hz)	50 / 60					
Automatic Switch Time (ms)	< 20					
THDu	< 2%					
Overload Capacity	110%, 30S / 120%, 10S / 150%, 0.02S					
Normal Parameter						
Battery Charging/Discharging	95.0%					
Efficiency	97.6%					
Max. Efficiency	97.0%					
MPPT Efficiency	99.9%					
Protection Degree	IP65					
Noise (dB)	< 35					
Operating Temperature Range	-25 C ~60 C					
Cooling Method	Natural cooling					
Relative Humidity	0~95% non-condensing					
Max. Operating Altitude	No limit below 2000m					
Dimensions of product / packaging (mm)	550* 200* 520 / 680*660*330					
Net weight / Gross weight (kg)	25 / 31					
Transformerless Topology	No					
Night Power Consumption	< 3					
Screen & Communication						
Screen	LCD					
Communication	Standard / Optional / Optional / Standard / Standard					
Safety	IEC / EN62109-1 / -2, 1EC / EN62477-1					
EMC	IEC / EN 61000-6-1 IEC / EN 61000-6-3					
Grid Connection Standards	South Africa NRS097-2-1: 2017,UK/G98,G99					