

# 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
<b>Input Parameter (PV)</b>						
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					
<b>Output Parameter (AC)</b>						
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					
<b>Battery Parameter</b>						
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					
<b>Emergency AC Power Supply (EPS)</b>	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					
<b>Normal Parameter</b>						
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					
<b>Screen &amp; Communication</b>						
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					