

LSRTH Series Residential Hybrid Inverter (Three Phase)

Product Highlights

Safe and reliable

- Anti-islanding protection, PV reverse polarity protection, battery reverse polarity protection, insulation resistance monitoring, residual current monitoring, AC overcurrent protection, AC overload protection, short circuit protection

User-friendly and flexible

- Support connection with diesel generator
- Full power discharge and automatic management of battery charge and discharge;
- Natural cooling design with very low noise

Economical

- Support multiple operation mode for better ROI
- UPS mode to guarantee critical loads during power grid blackout



Basic Parameters

Type	LSRTH 6KTL3L	LSRTH 8KTL3L	LSRTH 10KTL3L	LSRTH 12KTL3L	LSRTH 15KTL3L
Protection Degree	IP65				
Operating Temperature Range	-35~60°C				
Relative Humidity	0~100%				
Max. Operating Altitude	4000m (Limit over 2000m)				
Cooling Method	Natural cooling				
Noise(dB)	≤25dB				
Installation Mode	Wall mounted				
EMC	IEC/EN 61000-6-1:2019, IEC/EN 61000-6-2:2019, IEC/EN 61000-6-3:2021, IEN/EN 61000-6-4:2019, IEC/EN 61000-3-2:2019/A1:2021, EN 61000-3-3:2013/A2:2021, IEC/EN 61000-3-11:2019, EN 61000-3-12:2011				
Grid Connection Standards	Europe: EN 50549-1:2019/AC:2019; Poland: EN50549-1:2019/Rfg:2016/NC Rfg:2018/PTPIREE:2021; Germany: VDE-AR-N 4105:2018/DIN VDE V 0124-100(VDE V 0124-100):2020; South Africa: NRS 097-2-1:2017 Edition 2.1; GB: G99/1-6:2020; Spain: UNE217001:2020/UNE217002:2020/NTS V2.1:2021-07, IEC61727:2004/IEC62116:2014/IEC61683:1999; Hungary: EN50549-1:2019/RFG:2016/Hungary				
Safety standard	IEC / EN62109-1:2010, IEC / EN62109-2:2011				

Interface Parameter

Type	LSRTH 6KTL3L	LSRTH 8KTL3L	LSRTH 10KTL3L	LSRTH 12KTL3L	LSRTH 15KTL3L
Interface	LCD; APP				
BMS Connection	RS485, CAN				
EMS Connection	RS485				
Meter Communication Interface	RS485				
Communication Interface	WIFI / GPRS / 4G				

Battery Parameter

Type	LSRTH 6KTL3L	LSRTH 8KTL3L	LSRTH 10KTL3L	LSRTH 12KTL3L	LSRTH 15KTL3L
Max. Charging/Discharging Power	6600W	8800W	11000W	13200W	16500W
Battery Voltage Range(V)	125~600V				
Battery Operation Voltage Range(V)	150~550V				
Max. Charging/Discharging Current(A)	50A				
Rated Charging/Discharging Current(A)	40A				
Battery Type	LiFePO ₄ / Lead acid battery				

Input Parameter (PV)

Type	LSRTH 6KTL3L	LSRTH 8KTL3L	LSRTH 10KTL3L	LSRTH 12KTL3L	LSRTH 15KTL3L
Max. Input Power	9000W	12000W	15000W	18000W	22500W
Max. Input Voltage	1000V				
MPPT Voltage Range	180~850V				
Full-load MPPT Voltage Range	250V~850V	330V~850V	430V~850V	510V~850V	620V~850V
Start Voltage	125V				
Max. Current per MPPT	13/13A	13/13A	13/13A	13/13A	20/20A
Max. Short Circuit Current	16/16A	16/16A	16/16A	16/16A	30/30A
Number of MPP Trackers	2				
Number of MPPT / Number of String per MPPT	1/1	1/1	1/1	1/1	2/2
Rated Input Voltage	600V				

Output Parameter (Grid AC)

Type	LSRTH 6KTL3L	LSRTH 8KTL3L	LSRTH 10KTL3L	LSRTH 12KTL3L	LSRTH 15KTL3L
Rated Output Power	6000VA	8000VA	10000VA	12000VA	15000VA
Max. Output Power	6600VA	8800VA	11000VA	13200VA	16500VA
Max. Input Grid Power	13200VA	17600VA	22000VA	26400VA	33000VA
Max. Input Grid Current	19.1A	25A	31.8A	38.1A	47.6A
Rated Output Current	8.7A	11.5A	14.4A	17.3A	21.7A
Max. Output Current	9.5A	12.7A	15.9A	19.1A	23.8A
Rated Grid Voltage	380V/400V, 3W+N+PE				
Rated Grid Frequency	50Hz / 60Hz				
THDI	< 2%				

Emergency AC Power Supply (EPS) Parameter

Type	LSRTH 6KTL3L	LSRTH 8KTL3L	LSRTH 10KTL3L	LSRTH 12KTL3L	LSRTH 15KTL3L
Rated Output Power	8000VA	8000VA	10000VA	12000VA	15000VA
Max. Output Power	8800VA	8800VA	11000VA	13200VA	16500VA
Rated Output Current	8.7A	11.5A	14.4A	17.3A	21.7A
Max. Output Current	9.5A	12.7A	15.9A	19.1A	23.8A
Rated Output Voltage	400V,3W+N+PE				
Rated Output Frequency	50Hz/60Hz				
THDu	< 2%				
Max. Efficiency	97.9%	97.9%	98.2%	98.2%	98.5%
European Efficiency	97.2%	97.2%	97.5%	97.5%	97.6%
MPPT Efficiency	99.9%				
Max. Battery Charging / discharging Efficiency	97.5%	97.5%	97.5%	97.6%	97.8%

Mechanical Parameter

Type	LSRTH 6KTL3L	LSRTH 8KTL3L	LSRTH 10KTL3L	LSRTH 12KTL3L	LSRTH 15KTL3L
Dimensions of product / packaging	530*200*560 / 660*330*720mm				
Weight	30kg	30kg	31kg	32kg	34kg