

Hybrid Solar Inverter

Split Phase - IP65 - High Frequency

Model: MR-SPH12K-LP2-TL65U

FEATURES

- MPPT with up to 99.9% efficiency
- Up to 25A * 2 PV input current
- Software and hardware security protection
- Multiple safety approvals
- Up to 200A charging current
- Supports BMS communication
- IP65 protection degree
- Easy to install and simple to use
- Exclusive Li-ion battery BMS dual activation
- Time-slot function to save cost with peak-valley



SPECIFICATION

MODEL	MR-SPH12K-LP2-TL65U
RATED POWER	@240V 12kW; @208V 10.4kW
PARALLEL CAPACITY	Yes, 6 units
INVERTER OUTPUT	
Rated Output Power	120/240Vac, single-phase / split-phase / three-phase(parallel)
Max. Peak Power	2 times rated power
Rated Output Voltage	120V / 240VAC (plit-phase), 120V / 208V (Three-phase)
Output voltaege error	@240V 41.7A; @208V 48.1A
Load Capacity of Motors	6HP
Rated AC Frequency	50Hz / 60Hz
Waveform	Pure Sine Wave
BATTERY	
Battery Type	Li-ion / Lead-Acid / User Defined
Rated Battery Voltage	48VDC
Voltage Range	40-60VDC
Max. PV Charging Current	200A
Max. Grid Charging Current	120A
Max. Generator Charging Current	60A
Max. Hybrid Charging Current	200A
PV INPUT	
MPPT Numbers	2
Max. PV Array Power	6600W / 6600W
Max. PV Input Current	25A + 25A
MPPT Voltage Range	125VDC – 450VDC
PV Open-circuit Voltage	550VDC + 550VDC
GRID / GENERATOR INPUT	
Input Voltage Range	90VAC – 140VAC
Frequency Range	50Hz / 60Hz
Bypass phase current	63A
EFFICIENCY	
MPPT Tracking Efficiency	99.9%
Max Efficiency	97.5%
CEC Efficiency	96.5%
BASIC DATA	
Dimensions	750 * 440 * 240mm
Weight	42kg
Protection Degree	IP65
Operating Temperature Range	-25°C~60°C, >45°C derated
Noise	<60dB
Cooling Method	Heat sink + intelligent fan cooling
COMMUNICATION	
Communication port	RS485 / CAN / USB / Dry contact
External Modules (Optional)	Wi-Fi / GPRS