

WSL-3~6KSL-G2

Off-grid Hybrid Inverter 3/4/5/6kW



- **Support Grid/Generator Input**
Dual AC inputs and integrated grid-generator switching system
- **Parallel Connection**
Parallel connection with up to 9 units
- **Smart Load Management**
Dual AC outputs design
- **Faster On/Off-grid Switching**
UPS-level switching time: 10ms
- **Remote Monitoring**
Built-in WiFi module for App monitoring
- **Efficient Battery Charge/Discharge**
Max.120A charge current
Max.137A discharge current

Application scenario



House



Farm



Telecom



Countryside



Island



Pasture

TECHNICAL SPECIFICATION

Model	WSL-3KSL-G2	WSL-4KSL-G2	WSL-5KSL-G2	WSL-6KSL-G2		
Solar Input Data						
Max. PV Input Power	3300W	4400W	6000W	7800W		
Max. Input Voltage	500V		550V			
Start-up Voltage	120V					
MPPT Voltage Range	90V-450V		90V-500V			
Max. Input Current per MPPT	18A		27A			
Max. Short Circuit Current per MPPT	23A		32A			
Number of MPPT	1					
AC Input Data (Grid&Generator)						
Nominal Input Voltage	230Vac, L/N/PE					
Input Voltage Range	90-280Vac (APL); 170-280Vac (UPS)					
Max. Input Current	35A					
Nominal Input Power	8050W					
AC Frequency Range	40~65Hz					
Battery Data						
Battery Type	Li-Ion/Lead-acid					
Nominal Battery Voltage	24V		48V			
Battery Voltage Range	20~30V		42~60V			
Max. Discharge Current	137A	137A	115A	137A		
Max. Charge/Discharge Power	3000W	3300W	5000W	6000W		
Li-Ion Battery Activation	Yes					
Li-Ion Battery Communication	CAN/RS485					
Max. Solar Charge Current	120A	120A	100A	120A		
Max. AC Charge Current	100A	100A	80A	100A		
Max. Charge Current (PV+AC)	120A	120A	100A	120A		
Inverter Output Data						
Nominal Output Power	3000W	4000W	5000W	6000W		
Peak Apparent AC Power	6000VA	8000VA	10000VA	12000VA		
Nominal AC Voltage	230V					
Nominal Grid Frequency	50/60Hz (Auto Sensing)					
Voltage Waveform	Pure Sine Wave					
Transfer Time	10ms					
Max. Output Current	14A	18A	22A	27A		
Overload Protection	30s@102%-110% load; 10s@110%-130% load; 5s@130%-200% load					
THDv (@linealload)	<3%					
Efficiency						
Peak Efficiency	94%					
MPPT Efficiency	≥99.9%					
Protect						
DC Surge Protection	Yes					
AC Surge Protection	Yes					
AC Short Circuit Protection	Yes					
System Parameters						
Dimension (W*H*D)	333*505*120mm					
Weight	10.6kg					
Relative Humidity	5%-95%(Non-condensing)					
Operating Temperature Range	-10°C-50°C					
Noise Emission	≤50dB					
Altitude	4000m					
Cooling Method	Fan Cooling					
Ingress Protection	IP21					
Characteristic						
Number of AC Output	2					
Display	LCD&LED&APP					
Communication Interface	RS485/USB/CAN/Wi-Fi					
Parallel Capability	—	—	9	9		

*The data in this table is for reference only, and is subject to actual delivery.