



PULSE S2

Off-Grid Hybrid Inverter

Features >>

- Built-in dual MPPT tracking circuits, with a maximum MPPT input power of 1.5 times the rated power.
- Each MPPT channel supports a maximum input current of 27A, allowing for multiple strings of photovoltaic panels connected in parallel.
- Dual AC outputs with intelligent load management.
- Supports parallel connection of up to 6 single-phase inverters or 9 three-phase inverters in a grid configuration.
- Both AC and PV inputs can activate the lithium battery.
- Wide grid voltage adaptation range of 90-280Vac.
- Minimum MPPT operating voltage of 60Vdc.
- Comprehensive hardware protection.
- 2-year warranty / 3-year extended warranty (optional) / 5-year service.



PULSE S2 Product Specifications

Model	8kW		11kW
Battery Data			
Battery Type	Lithium-ion & Lead-acid		
Rated Battery Voltage (Vdc)	48		
Battery Voltage Range (Vdc)	40~60		
Max. Charge/Discharge Current (A)	120 / 160	150 / 220	
Forced Wake-up by PV	YES		
PV Input			
Max. Input Power (W)	2x6000	2x8250	
Max. Input Voltage (Vdc)	500		
Rated Input Voltage (Vdc)	370		
MPPT Voltage Range (Vdc)	60~450		
No. Of MPPT/ Strings Per MPPT	2/2		
Max Input Current Per MPPT (A)	27		
Max. Short Circuit Current Per MPPT (A)	35A		
Grid Input			
Rated Grid Voltage (Vac)	220/230/240±5%		
Voltage Input Range (Vac)	90~280		
Rated Grid Frequency (Hz)	50 / 60		
Max Input Current (A)	50	60	
Total Harmonic Distortion (THDi)	<3% (of nominal power)		
Backup Data			
Rated Output Power (W)	8000	11000	
Rated Output Current (A)	35	48	
Rated Output Frequency (Hz)	50/60±0.1%		
Overload Capability	10s@105% ~ 120%;5s@121% ~ 200%;100ms@ > 200%		
Switch Time (ms)	10ms for Computer Equipment,20ms for Household Equipment		
Total Harmonic Distortion (THDv)	<3%		
Efficiency			
Max. Efficiency	97.0%		
MPPT Tracking Efficiency	99.9%		
Protection			
Integrated	DC Polarity Reverse Connection Protection, AC Output Overcurrent Protection, Thermal Protection, AC Output Overvoltage Protection, AC Output Short Circuit Protection, DC Component Monitoring, Overvoltage Load Drop Protection, Power Network Monitoring, Earth Fault Detection,Surge protection level		
Surge Protection	TYPE II(DC), TYPE II(AC)		
Over Voltage Category	OVC II (DC), OVC III (AC)		
General Data			
Operating Temperature (°C)	-10~+55		
Dimensions [W*H*D] (mm)	420*450*105		
Weight (kg)	15.5		
Inverter Topology	Non-Isolated		
Cooling	Internal Fan		
Altitude (m)	≤3000		
Protection Level	IP21		
Communication	RS232 / RS485 / CAN / Dry contact/ External battery NTC/Parallel communication /WIFI(optional)		
Warranty	2 Years		
Standard			
Safety Standards	IEC 62109-1:2010;EN62109-1:2010;IEC 62109-2:2011;EN62109-2:2011		
EMC Standards	EN IEC 61000-6-1:2019;EN IEC 61000-6-3:2021;EN IEC 61000-3-11:2019;EN61000-3-12:2011		
Efficiency Standard	IEC 61683:1999		