



PULSE S4

ECO-hybrid Inverter

Features >>

- IP66 protection rating.
- Supports up to 12kW dual-channel photovoltaic power input.
- Dual AC outputs with intelligent load management.
- Supports battery-free operation mode.
- Supports parallel connection of up to 6 single-phase inverters or 9 three-phase inverters in a grid configuration.
- Lithium batteries can be activated by AC/PV/diesel generators.
- Wide grid voltage adaptation range of 90-280Vac.
- Minimum MPPT operating voltage of 60Vdc.
- Compatible with diesel generator interface, automatic start/stop control.
- Features grid connection capability for peak shaving and valley filling(TOU).
- Built-in Wi-Fi and Bluetooth, supporting mobile device monitoring (Android/iOS systems).
- Supports RGB indicator light status display, with different colors corresponding to different operating modes.
- 5-year warranty / 10-year service (optional).



PULSE S4 Product Specifications

Model	6kW	8kW
Battery Data		
Battery Type	Lithium-ion & Lead-acid	
Rated Battery Voltage (Vdc)	48	
Battery Voltage Range (Vdc)	40~60	
Max. Charge/Discharge Current (A)	125 / 125	165 / 165
Forced Wake-up by PV	YES	
PV Input		
Max. MPPT Input Power (W)	12000	
Max. Input Voltage (Vdc)	500	
Rated Input Voltage (Vdc)	370	
MPPT Voltage Range (Vdc)	60~450	
No. Of MPPT/ Strings Per MPPT	2 / 1+1	
Max Input Current Per MPPT (A)	18+18	
Max. Short Circuit Current Per MPPT (A)	27+27	
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)	40	50
Total Harmonic Distortion (THDi)	<3% (of nominal power)	
Backup Data		
Rated Output Power (W)	6000	8000
Rated Output Current (A)	27	35
Rated Output Frequency (Hz)	50/60±0.1%	
Overload Capability	1min@101~110%;10s@110% ~ 150%;5s@150% ~ 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)	-40~+60 (Above 45°C Derating)	
Dimensions [W*H*D] (mm)	430*350*177.8	
Weight (kg)	16.0	
Inverter Topology	Non-Isolated	
Cooling	Smart cooling	
Altitude (m)	≤3000	
Protection Level	IP66	
Communication	RS485 / CAN / Dry contact/ External battery NTC/Parallel communication/WIFI(Built-in)	
Warranty	5 Years	
Standard		
Safety Standards	IEC 62109-1:2010, EN 62109-1:2010, IEC 62109-2:2011, EN 62109-2:2011	
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	