

PULSE S4 Mini

AlpSolarr
A LIGOO BRAND



PULSE S4 Mini

Eco-Hybrid Inverter

Features >>

- IP66 protection rating
- Capable of handling inductive loads such as water pumps all the day (enhancing household load capacity).
- Maximum MPPT input current of 20A
- Dual AC outputs with intelligent load management.
- Supports battery-free operation mode.
- Maximum charging and discharging current of 100A.
- 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.
- 2 times grid input over-provisioning technology.
- Minimum MPPT operating voltage of 60Vdc.
- Built-in WiFi and Bluetooth for mobile monitoring with AI.
- 5-year warranty / 10-year service (optional).



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PULSE S4 Mini Product Specifications

Model	S4 Mini (4kw)		S4 Mini Pro (6/6.5kw)
Battery Data			
Battery Type	Lithium-ion & Lead-acid		
Rated Battery Voltage (Vdc)	48		
Battery Voltage Range (Vdc)	40~60		
Max. Charge/Discharge Current (A)	100 / 100		
Forced Wake-up by PV	YES		
PV Input			
Max. PV Access Power (W)	11250		
Max. MPPT Input Power (W)	9000		
Max. Input Voltage (Vdc)	500		
Rated Input Voltage (Vdc)	370		
Start-Up Voltage (Vdc)	70		
MPPT Voltage Range (Vdc)	60~450		
No. Of MPPT/ Strings Per MPPT	1/1		
Max Input Current Per MPPT (A)	20		
Max. Short Circuit Current Per MPPT (A)	27		
Grid Input/Output			
Rated AC Output Power (W)	4000	6000	
Maximum Apparent Power (VA)	4000	6000	
Rated Output Current (A)	18.2/17.4/16.7	27.3/26.1/25.0	
Rated Grid Voltage (Vac)	220/230/240±5%		
Voltage Input Range (Vac)	90~280		
Rated Grid Frequency (Hz)	50 / 60		
Frequency Range (Hz)	40~65		
Max Input Current (A)	40		
Max Output Current (A)	40		
Total Harmonic Distortion (THDi)	<3% (of nominal power)		
Load Parameter			
Rated Output Power (W)	4000	6000(PV+Bat)	
Maximum Apparent Power (VA)	4000	6000(PV+Bat)	
Rated Output Current (A)	18.2/17.4/16.7	27.3/26.1/25.0	
Rated Output Voltage (Vac)	220/230/240±5%		
Rated Output Frequency (Hz)	50/60±0.1%		
Overload Capability	1min@101~110%;10s@110% ~ 150%;5s@150% ~ 200%;100ms@ > 200%		
Switch Time (ms)	4~6 ms 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)		
Humidity (%RH)	0~100%		
Dimensions [W×H×D] (mm)	350×280×145.6		
Weight (kg)	9.8		
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)		
Display	LED Display/Touchable Display		
Warranty	5 Years		
Certification 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		
Grid standards	IEC 62116;IEC 61727		