PULSE S3

Eco-Hybrid Inverter

Cora Dawn solar

POWER

6kW



Intelligent Energy Management

Higher Satisfaction

Lower Installation Cost

Whisper Quiet



Key Features

- IP66 protection rating
- 1.7× MPPT Oversizing (up to 2×)
- 28A MPPT Input Current
- 1.5× Grid Over provisioning
- 5-year warranty / 10-year service (optional)
- Parallel connection: up to 6 single phase / 9 three phase

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PULSE S3 Product Specifications

Model	S3(6kW)

Battery Data

Battery Type	Lithium-ion & Lead-acid
Rated Battery Voltage (Vdc)	48
Battery Voltage Range (Vdc)	40~60
Max. Charge/Discharge Current (A)	125/135
Forced Wake-up by PV	YES

PV Input

Max. MPPT Input Power (W)	10200	No. Of MPPT/ Strings Per MPPT	1/2
Max. Input Voltage (Vdc)	500	Max Input Current Per MPPT (A)	28
Rated Input Voltage (Vdc)	370	Max. Short Circuit Current Per MPPT (A)	35A
MPPT Voltage Range (Vdc)	60~450		

Grid Input

Rated Grid Voltage (Vac)	220/230/240±5%	Max Input Current (A)	40
Voltage Input Range (Vac)	90~280	Total Harmonic Distortion (THDi)	<3% (of nominal power)
Rated Grid Frequency (Hz)	50/60		

Backup Data

Rated AC Output Power (W)	6000	Rated Output Frequency (Hz)	50/60±0.1%
Rated Output Current (A)	27	Total Harmonic Distortion (THDi)	<3%
Overload Capability	1min@101-110%;10s@110%～150%;5s@150%～200%;100ms@＞200%		
Switch Time (ms)	10ms for Computer Equipment, 20ms for Household Equipment		

GEN

Rated GEN Voltage (V)	230	Rated GEN Input power(V)	9200
Rated GEN Input current (A)	40		

Load Parameter

Rated Output Power (W)	8000	Rated Output Current (A)	36.4/34.8/33.4
Maximum Apparent Power (VA)	8000	Rated Output Voltage (Vac)	220/230/240±5%
Rated Output Frequency (Hz)	50/60±0.1%	Total Harmonic Distortion (THDv)	3%
Overload Capability	1min@101-110%;10s@110%～150%;5s@150%～200%;100ms@＞200%		
Switch Time (ms)	4~6ms for Computer Equipment, 20ms for Household Equipment		

Efficiency

Max Inverter Efficiency	97.00%	MPPT Tracking Efficiency	99.90%

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)	Cooling	Smart cooling
Dimensions [W*H*D] (mm)	395*485*156	Altitude (m)	⩽3000
Weight (kg)	14.5	Protection Level	IP66
Inverter Topology	Non-Isolated	Warranty	5 Years
Communication Interfaces	RS232 / RS485 / CAN / Dry contact/ External battery NTC/Parallel communication/WIFI(optional)		

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

Notice: All data contained in this specification is subject to change without prior notice, and the final interpretation right belongs to Cora Dawn Solar.