



ROSA Series G2

Single Phase
Hybrid Inverter

IP66

LFP/VRLA

3 MPPTs



Fast 230A Charging

Quick 230A charging and discharging reduce wait times, enhancing efficiency

Flexible Paralleling

Easily expandable with paralleling capabilities for diverse scenarios

Smart Monitoring via Mobile App

Remote monitoring for convenient operation

Low Voltage Wake-Up

Battery forced wake-up during lower improved stability and extended generation duration

200% Overload Tolerance

Supports 2x the transient overload for greater reliability

IP66 Rating Design

Dustproof and waterproof design ensures long equipment life

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Single Phase Hybrid Inverter



Model	8kW	10kW	12kW
Battery Data			
Battery Type	Lithium-ion & Lead-acid		
Rated Battery Voltage (Vdc)	48		
Battery Voltage Range (Vdc)	40~60		
Max. Charge/Discharge Current (A)	180/180	200/200	230/230
Forced Wake-up by PV	Yes		
PV Input			
Max. Input Power (W)	12000	15000	18000
Max. Input Voltage (Vdc)	500		
Rated Input Voltage (Vdc)	370		
Start-Up Voltage (Vdc)	100		
MPPT Voltage Range (Vdc)	100~425		
No. Of MPPT/ Strings Per MPPT	3/2+1+1		
Max Input Current Per MPPT (A)	28/16/16		
Max. Short Circuit Current Per MPPT (A)	44/25/25		
Grid Input & Output			
Rated Grid Voltage (Vac)	L/N/PE, 230		
Rated Grid Frequency (Hz)	50		
Rated Grid-Tied Power (W)	8000	10000	12000
Rated Grid-Tied Current (A)	34.8	43.5	52.2
Max Grid-Tied Apparent Power (VA)	8800	11000	13200
Max Grid-Tied Current (A)	40	50	60
Max Input Apparent Power (VA)	12000	15000	18000
Max Input Current (A)	52.2	65.2	78.3
Total Harmonic Distortion (THDi)	< 3%		
Displacement Power Factor	0.8 leading to 0.8 lagging		
Backup Data			
Rated Output Power (W)	8000	10000	12000
Rated Output Current (A)	34.8	43.5	52.2
Rated Output Frequency (Hz)	50		
Overload Capability	110%, continuous; 200%, 10s		
Switch Time (ms)	≤10		
Total Harmonic Distortion (THDv)	< 3%		
Efficiency			
Max. Efficiency	97.8%		
Euro Efficiency	96.5%		
MPPT Efficiency	99.9%		
Protection			
Integrated	PV Reverse-polarity Protection, PV Insulation Detection, Ground Fault Monitoring, Over Current Protection, Over Voltage Protection		
Surge Protection	DC Type II / AC Type II		
Over Voltage Category	DC Type II / AC Type III		
AFCI	Optional		
General Data			
Operating Temperature (°C)	-25 ~ +60 (Above 45°C Derating)		
Dimensions [W*H*D] (mm)	450*570*268		
Weight (kg)	39		
Topology	Transformerless		
Cooling	Smart Cooling		
Altitude (m)	≤3000		
Protection Level	IP66		
Communication	RS485, WiFi/GPRS, CAN2.0		
Warranty	5 Years (Standard) / 10 Years (Optional)		
Max. No. of Parallel Units	6		
Standard			
Grid Standards	VDE-AR-N 4105, VDE V 0126-1-1, CEI 0-21, G98/G99, EN 50438/EN50549, NRS 097		
Safety Standards	IEC/EN 62109-1, IEC/EN 62109-2		
EMC Standards	EN IEC 61000-6-1:2019, EN IEC 61000-6-3:2021, EN 61000-3-12:2011, EN IEC 61000-3-11:2019		