



## ROSA Series G1

Single Phase  
Hybrid Inverter

3  
-  
6kW

LFP/VRLA

2 MPPTs



### Fanless Silent Design

Whisper-quiet operation with fanless design for a noise-free environment

### Sleek Design & Easy Installation

Compact and lightweight design for easy installation

### Compatibility with Various Loads

Compatible with a wide range of nonlinear loads for better adaptability

### Low Voltage Wake-Up

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

### Smart Monitoring via Mobile App

Remote monitoring for convenient operation

### IP66 Rating Design

Dustproof and waterproof design ensures long equipment life

# ROSA Series G1

## Single Phase Hybrid Inverter



Model	3kW	3.6kW	4kW	4.6kW	5kW	6kW
<b>Battery Data</b>						
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					
<b>PV Input</b>						
Max. Input Power (W)	4500	4800	6000	6900	7500	9000
Max. Input Voltage (Vdc)	550					
Rated Input Voltage (Vdc)	400					
Start-Up Voltage (Vdc)	100					
MPPT Voltage Range (Vdc)	100~530					
No. Of MPPT/ Strings Per MPPT	2/1+1					
Max Input Current Per MPPT (A)	15/15					
Max. Short Circuit Current Per MPPT (A)	20/20					
<b>Grid Input &amp; Output</b>						
Rated Grid Voltage (Vac)	L/N/PE, 220/230					
Rated Grid Frequency (Hz)	50 / 60					
Rated Grid-Tied Power (W)	3000	3600	4000	4600	5000	6000
Rated Grid-Tied Current (A)	13.6	16.4	18.2	20.9	22.7	27.3
Max Grid-Tied Apparent Power (VA)	3000	3600	4000	4600	5000	6000
Max Grid-Tied Current (A)	13.6	16.4	18.2	20.9	22.7	27.3
Max Input Apparent Power (VA)	3000	3600	4000	4600	5000	6000
Max Input Current (A)	13.6	16.4	18.2	20.9	22.7	27.3
Total Harmonic Distortion (THDi)	< 3%					
Displacement Power Factor	0.8 leading to 0.8 lagging					
<b>Backup Data</b>						
Rated Output Power (W)	3000	3600	4000	4600	5000	5000
Rated Output Current (A)	13.6	16.4	18.2	20.9	22.7	22.7
Rated Output Frequency (Hz)	50 / 60					
Overload Capability	110%, 60s					
Switch Time (ms)	≤20					
Total Harmonic Distortion (THDv)	< 3%					
<b>Efficiency</b>						
Max. Efficiency	97.5%	97.5%	97.5%	97.8%	97.8%	97.8%
Euro Efficiency	97.2%	97.2%	97.2%	97.3%	97.3%	97.3%
MPPT Efficiency	99.9%					
<b>Protection</b>						
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					
<b>General Data</b>						
Operating Temperature (°C)	-25 ~ +60 (Above 45°C Derating)					
Dimensions [W*H*D] (mm)	510*460*200					
Weight (kg)	26					
Topology	Transformerless					
Cooling	Natural Cooling					
Altitude (m)	≤3000					
Protection Level	IP66					
Communication	RS485, WiFi/GPRS, CAN2.0					
Warranty	5 Years (Standard) / 10 Years (Optional)					
<b>Standard</b>						
Grid Standards	VDE-AR-N 4105, VDE V 0126-1-1, CEI 0-21, G98/G99, EN 50438/EN50549					
Safety Standards	IEC/EN 62109-1, IEC/EN 62109-2					
EMC Standards	EN IEC 61000-6-1:2019, EN IEC 61000-6-3:202, EN 61000-3-12:2011, EN IEC 61000-3-11:2019					