

Residential Series



HYBRID – OGH SERIES

Single Phase



INV-OGH-1.5KW-12V

INV-OGH-3.0KW-24V

INV-OGH-4.0KW-24V

INV-OGH-5.0KW-24V

INV-OGH-5.0KW-48V

INV-OGH-6.2KW-48V

Key Features:

-  Built-In Anti-Dust Kit
-  Battery Independent Design
-  Built-In Feed-In Grid Function
-  Built-In BMS Communication Port
-  Maximum Charging Current 100A/120A (Based On Models)
-  Wide PV Input Range (Starts From 30VDC for 1.5K/3K/4K Models)
-  Battery Equalization Function (Optimize Performance & Extend Lifecycle)
-  Built-In WiFi With APP For Mobile Monitoring and OTA Firmware Upgrade

Model	INV-OGH-1.5KW-12V	INV-OGH-3.0KW-24V	INV-OGH-4.0KW-24V	INV-OGH-5.0KW-24V	INV-OGH-5.0KW-48V	INV-OGH-6.2KW-48V
Rated Power	1500VA/1500W	3000VA/3000W	4000VA/4000W	5000VA/5000W	5000VA/5000W	6200VA/6200W
Input						
Voltage	230 VAC					
Selectable Voltage Range	170-280 VAC (For Personal Computers); 90-280 VAC (For Home Appliances)					
Frequency Range	50 Hz/60 Hz (Auto sensing)					
Output						
AC Voltage Regulation (Batt. Mode)	230VAC ± 5%					
Output Power	1500W with PV & battery ; 1200W with battery only	3000W with PV & battery ; 2500W with battery only	4200W with PV & battery ; 4000W with battery only		6200W with PV & battery ; 5000W with battery only	
AC Output No.	Single		Dual Outputs			
Surge Power	3000VA	6000VA	8400VA		12400VA	
Efficiency (Peak)	93%					
Transfer Time	10 ms (For Personal Computers); 20 ms (For Home Appliances)					
Waveform	Pure Sine Wave					
Battery						
Battery Voltage	12 VDC	24 VDC			48 VDC	
Floating Charge Voltage	13.5 VDC	27 VDC			54 VDC	
Overcharge Protection	16 VDC	32 VDC			63 VDC	
Solar Charger & AC Charger						
Solar Charger Type	MPPT					
Maximum PV Array Open Circuit Voltage	350 VDC	450 VDC	500 VDC			
Maximum PV Array Power	2000W	3000W	5000W		6500W	
Maximum PV Input Current	13A		18A			
MPPT Range @ Operating Voltage	30 ~ 300 VDC (Min. 60VDC without battery connected)	30 ~ 400 VDC (Min. 60VDC without battery connected)	30 ~ 450 VDC (Min. 60VDC without battery connected)		90~450 VDC (Min. 100VDC without battery connected)	
Maximum Solar Charge Current	100A		120A		100A	
Maximum AC Charge Current	80A		100A			
Maximum Charge Current	100A		120A		100A	
Physical						
Dimensions (Excluding Connectors)	357(H) mm x 288(W) mm x 90(D) mm			435(H) mm x 300(W) mm x 115(D) mm		
Net Weight (kgs)	6.6	7.1	9		10.4	
Communication Interface	RS232/RS485(BMS)/WiFi					
Operating Environment						
Humidity	5% to 95% Relative Humidity (Non-condensing)					
Operating Temperature	-10°C to 50°C					
Storage Temperature	-15°C to 60°C					