







Residential ESS

01 HF Series

3.6kW / 5kW
Single Phase, 1 MPPT
Off-grid Inverter



-  Compatible with lithium & lead-acid battery (48V)
-  Support up to 6 units parallel connections
-  Work with or without batteries
-  MPPT charge controller and AC charger integrated
-  Double rating of surge power suitable for motor loads
-  UPS-level switching



Model	O1-HF-3.6	O1-HF-5.0
Battery		
Nominal Battery Voltage [V]	48	
Battery Voltage Range [V]	40 ~ 60	
Battery Type	Lithium / Lead-acid	
Solar Charger		
Max. PV Input Power [Wp]	4500	6000
Max. PV Input Voltage [V]	450	
Max. PV Input Current [A]	18	
MPPT Range [V]	120 ~ 430	
MPP Trackers / String per Tracker	1 / 1	
Max Charging Current [A]	80	100
Max. Efficiency	93%	93%
AC Charger		
Nominal AC Input Voltage [V]	220 / 230 / 240	
Max. AC Charge Current [A]	60	80
AC Voltage Range [V]	180 ~ 275	
Frequency Range [Hz]	50 / 60; ±5	
Inverter Output		
Rated Output Power [W / VA]	3600 / 3600	5000 / 5000
Parallel Capacity	NA	Up to 6
Nominal Output Voltage [V]	220 / 230 / 240	
Nominal Output Frequency [Hz]	50 / 60	
Surge Power [W]	7200	10000
Max. Efficiency	93%	
THDi	5%	
Automatic Switch Time	10ms (For Personal Computers); 20ms (For Home Appliances)	
General Parameters		
Ingress Protection	IP20	
Dimensions (W * H * D) [mm]	330 * 485 * 135	
Weight [kg]	11.5	12
Ambient Temperature Range [°C]	0 ~ +50	
Storage Temperature Range [°C]	-15 ~ +60	
Communication	WiFi or 4G (Optional)	