

# 6.2kW Single Phase Off-grid Inverter

Uhome-OF1P6K2L1



Bottom interfaces ↓



## PRODUCT FEATURES



IP65 protection rating, suitable for outdoor scenarios



LCD touch color screen for better display



2x DC side overrating, 18A MPPT current, compatible with high-power modules



3 MPPT inputs to significantly increase power generation



High conversion efficiency, up to 99.9% MPPT efficiency



Compatible with lead-acid and lithium batteries, enhancing practicality



Diesel generator interface to ensure power supply continuity



Supports PV black start function

## ● Technical Specifications

Product Model	Uhome-OF1P6K2L1
<b>PV DC Input Parameters (PV Side)</b>	
Maximum Input Power	12400W
Maximum Input Voltage	450V
Starting Voltage / Minimum Operating Voltage	100V
MPPT Voltage Range	120~450V
Number of MPPT Trackers/ Number of Strings for Each MPPT	3/1
Maximum Input Current	18A*3
Maximum Short-Circuit Current	20A*3
<b>Grid Input Parameters (AC Side)</b>	
Rated AC Input Power	6200W
Maximum Continuous Input Current	28A
Grid Rated Voltage / Grid Voltage Range	230Vac/180~270Vac
Rated Grid Frequency / Frequency Range	50Hz/60Hz(Adaptive)
AC Output Type	Single Phase(L,N,PE)
<b>Diesel Generator Input Parameters(AC side)</b>	
Rated AC Input Power	6200W
Maximum Continuous Input Current	28A
Grid Rated Voltage / Grid Voltage Range	230Vac/180~270Vac
Rated Grid Frequency / Frequency Range	50Hz/60Hz(Adaptive)
AC Output Type	Single Phase(L,N,PE)
<b>EPS Outout Parameters</b>	
Rated Output power	230Vac
Frequency	50/60Hz
Rated Current	28A
Maximum Output Frequency	6200VA/6200W
Waveform	Pure sine wave
Voltage Harmonic Distortion	≤3%(liner load)
Surge Capability	12400VA
Switch Time	Typical 10ms, Maximum 20ms
<b>Battery</b>	
Battery Type	Lithium Battery / Lead-Acid Battery
Battery Rated Voltage	48V
Battery Voltage Range	40~60V
Maximum Charging Current	135A
Maximum Discharging Current	135A
Communication	CAN/RS485

## ● Technical Specifications

System Parameters	
Maximum Frequency	97.50%
PV-AC European Frequency	96.70%
MPPT Frequency	99.99%
Isolation Method (PV Side)	Non-isolation
Isolation Method (Battery Side)	High-frequency isolation
Protection Rating	IP65
Dimension(W*H*D)	460*405*228 mm
Weight	22kg
Operating Temperature Range	-10°C~60°C
Cooling Type	External Air Cooling
Relative Humidity	5~95%,Non-condensation
Display	LCD
Communication	RS485,CAN,WiFi(optional)
Certification	/
Warranty	5 years