

# 5-12kW Three Phase Inverter



## FEATURES

**1.6**

DC side 1.6 times over matched, MPPT current up to 20A, suitable for high-power components

**3**

3 MPPT channels greatly increase power generation

**1.1**

The maximum output power off grid reaches 1.1 times

**100%**

Support 100% three-phase unbalanced output

**50A**

The maximum charging and discharging current of the battery can reach 50A

**160-800v**

Battery input of inverter 160V-800V

# Technical Specifications

Product Model	Uhome-HB -3P5K0H1	Uhome-HB -3P6K0H1	Uhome-HB -3P8K0H1	Uhome-HB -3P10K0H1	Uhome-HB -3P12K0H1
<b>Input Parameters(DC)</b>					
Maximum Input Voltage	1100V				
Maximum MPPT Current	20A				
Maximum MPPT Short-Circuit Current	40A				
Starting Voltage	160V				
MPPT Voltage Range	160~1000V				
Number of MPPT Trackers	3				
Number of Strings for Each MPPT	1				
<b>Battery Parameters(DC)</b>					
Battery Type	Li-Ion/Lead-acid				
Battery Voltage Range	160-800V				
Maximum Charging/Discharging Current	50A				
Battery Communication	CAN/RS485				
<b>Output Parameters(AC)</b>					
Rated output power	5000W	6000W	8000W	10000W	12000W
Maximum Apparent Power	5500VA	6600VA	8800VA	11000VA	13200VA
Rated Voltage	3/N/PE,380/400v				
Rated Grid Frequency	50Hz/60Hz				
Maximum Output Current	8.3A	10A	13.3A	16.7A	20A
Power factor	0.8 leading...0.8lagging				
Total Current Harmonic Distortion Rate	< 3%(Rated Power)				
<b>Off-grid Parameters(AC)</b>					
Rated output power	5000W	6000W	8000W	10000W	12000W
Maximum Apparent Power	5500VA	6600VA	8800VA	11000VA	13200VA
Rated Voltage	3/N/PE,380/400v				
Rated Grid Frequency	50Hz/60Hz				
Peak Power	10000W for 60s	12000W for 60s	16000W for 60s	20000W for 60s	20000W for 60s
Maximum Output Current	8.3A	10A	13.3A	16.7A	20A
THDv	< 2%(Rated Power)				
<b>Efficiency</b>					
Maximum Efficiency	>98.2%	>98.2%	>98.2%	>98.4%	>98.4%
European Efficiency	>97.6%	>97.6%	>97.6%	>97.8%	>97.8%
Charing/Discharging Efficiency	>97.6%	>97.6%	>97.6%	>97.8%	>97.8%
<b>Safety and Protection</b>					
DC Switch	Yes				
Isolated Island Protection	Yes				
Overcurrent Protection	Yes				
PV/Battery Reverse Connection Protection	Yes				
DC Surge Protection	II				
AC Surge Protection	II				
Insulation Resistance Testing	Yes				

# Technical Specifications

Display and Communication		
Display		LCD
RS485		Yes
CAN		Yes
WiFi/4G/LAN		Yes
Bluetooth		Yes
General Parameters		
Dimension(W*H*D)		565*440*260 mm
Weight		33kg
Operation Temperature Range		-25~60 C
Cooling Concept		Natural convection
Maximum Operation Altitude		4000m
Relative Humidity		0~100%
IP Rating		IP 66
Noise		<45 dB
Topological Structure		Transformerless