

## Overview

UPower-Hi series is an inverter charger that supports diversified energy management modes on solar/utility/generator charging, and utility/inverter power supply to the AC loads. To maximize solar energy utilization, users can choose energy sources according to actual needs and flexibly take the utility as a supplement. This inverter charger can raise the system's power supply guarantee rate, which is suitable for solar energy, utility/oil generator hybrid systems. It aims to provide users with high-quality, high-stability, and high-reliability electrical energy.

## **Features**

- Supports the battery mode or non-battery mode
- Surge current and reverse connection protections to support the lithium battery system perfectly
- Three charging modes: Solar only, Solar priority, Utility & Solar
- Two AC output modes: Utility priority and Inverter priority
- High tracking efficiency of MPPT no less than 99.5%
- PFC technology which achieves a high power factor of AC to DC charging and reduces the usage of power grid capacity
- Advanced SPWM technology and pure sine wave output
- Configurable battery charging current and discharging current
- · Configurable grid charging current
- Self-learning SOC function
- 4.2 inch LCD to monitor and modify system parameters
- Optional WiFi or GPRS Remote control via the RS485 isolated communication port
- · BMS-Link port and optional BMS-Link communication protocol module





















UP2000-HM6022	UP3000-HM10022	UP3000-HM5042	UP5000-HM8042
24V	/DC	48	VDC
21.6~32VDC		43.2~64VDC	
60A	100A	50A	80A
2000W	3000W	3000W	5000W
			8000W
.55511			33311
Pure Sine Wave			
1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2			
, , , ,			
02%		,	92%
	•		91%
	-		93%
10ms(Switch from	the utility output to the inverter output)	, 15ms(Sw itch from the inverter output	to the utility output)
176VAC~264VAC (Default), 90VAC~280VAC(Programmable)			
40~65Hz			
60A(When the Utility input voltage is	80A(When the Utility input voltage is	40A(When the Utility input voltage is	60A(When the Utility input voltage is
90VAC~180VAC, the Max. utility	90VAC~180VAC, the Max. utility	90VAC~180VAC, the Max. utility	90VAC~180VAC, the Max. utility
charge current is 30A)	charge current is 40A)	charge current is 20A)	charge current is 30A)
			·
			500V (At minimum operating
450V(At minimum operating environment temperature) 395V(At 25℃ environment temperature)		environment temperature)	
		440V(At 25℃ environment	
		temperature)	
80~350V		120~400V	
2500W		4000W	4000W
(Note: For the curve of Max. PV input pow er Vs. PV open-circuit voltage, see chapter 3.4 Operating mode for details.)			
			4000W
			80A
` '		57.6V (AGM default)	
` '		55.2V(AGM default)	
	011117 672	L V (Bordan)	
504	604	564	95A
			**
<1.			.2A
			7.0
	(This see . Y and duling boiling	, tarri err are roug output/	
607.5x381.6x127mm	642.5x381.6x149mm	607.5x381.6x149mm	642.5x381.6x149mm
585*300mm	620*300mm	585*300mm	620*300mm
Ф10mm	Ф10mm	Ф10mm	Ф10mm
15kg	19kg	18kg	19kg
IP30			
- 3		230	
		−30 % (N.C.)	
	24V 21.6~3 60A  2000W 4000W  92% 91% 93% 10ms(Switch from  60A(When the Utility input voltage is 90VAC~180VAC, the Max. utility charge current is 30A)  450V(A 33  2500W (Note: For the curve 1725W 60A 29.2V(AG 28.8V(AG 27.6V(AG 21.6V(AG 2	24VDC 21.6~32VDC 60A 100A  2000W 3000W 4000W 6000W 220VAC(-6%~+3%) 50/6 Pure S 0.2-1(Load pow er ≤ C THD≤3%(R 92% 92% 91% 91% 91% 93% 93%  10ms(Switch from the utility output to the inverter output)  176VAC~264VAC (Default), S 40- 60A(When the Utility input voltage is 90VAC~180VAC, the Max. utility charge current is 30A)  450V(At minimum operating environment temp 395V(At 25°C environment temperature)  80~350V 2500W 4000W (Note: For the curve of Max. PV input pow er Vs. PV open 1725W 2875W 60A 100A 29.2V(AGM default) 28.8V(AGM default) 27.6V(AGM default) 28.8V(AGM default) 27.6V(AGM default) 28.8V(AGM default) 21.6V(AGM default) 21.6V(AGM default) 21.6V(AGM default) 21.6V(AGM default) 22.6V(AGM default) 23.8W(AGM default) 24.8V (AGM default) 2500W 4000W (without PV and utility connections of 607.5x381.6x127mm 642.5x381.6x149mm 6585°300mm 620°300mm 400mm	24VDC 21.6~32VDC 43.2~ 60A 100A 50A 43.2~ 60A 100A 50A 3000W 3000W 3000W 4000W 6000W 4000W 6000W 5000W 5000W 50000W 500000W 50000W 500000W 500000W 500000W 500000W 500000W 500000W 5000000W 500000W 500000W 500000W 500000W 500000W 500000W 500000W 5000000W 5000000W 5000000W 50000000W 50000000W 50000000W 500000000



