

# UHC Series 12KW Three Phase Hybrid Inverter



UHC -12KT suit household and small commercial applications. Hybrid and AC-coupled solution provide flexible options for both new and retrofit systems, with the feature of Max.10 units inverter in parallel, offering a solution for small commercial project. All of them ensure the most efficient use of solar energy at home, increase self-consumption and grid independence, reduce your electricity bills.



### Leading Technology

- Max. 15A PV input current per string
- Less than 10ms UPS-level switching
- 98.2% max. efficiency



### High Reliability

- IP65 protection degree
- Compact and elegant design with integrated diecasting technology
- Long-term efficient operation with advanced heat dissipation design



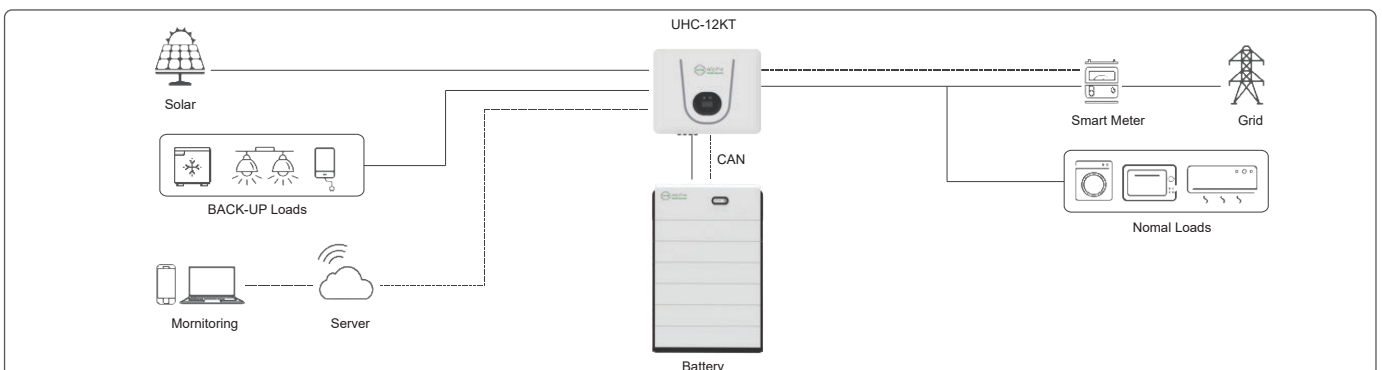
### High Performance

- Up to 110% unbalanced load
- Max. 200% back-up output overloading @60s
- Parallel operation with max. 10 units



### User-Friendly

- Easy installation and O&M with horizontal design and quick plug terminals
- Easy data check via both OLED display and App
- Ideal for residential application with low operating noise



Model	UHC-12KT
<b>PV Input Data</b>	
Max.PV power	18000W
Max. DC voltage	1000V
Start-up voltage	135V
MPPT voltage range	120~950V
Rated DC voltage	620V
No. of MPP trackers	2
No. of string per MPP tracker	1/1
Max. input current	15A/15A
Max. short current	20A/20A
<b>Battery Input Data</b>	
Battery type	Li-Ion
Battery voltage range	135~750V
Max. charge power	12000W
Max. charge/discharge current	25A/25A
Capacity	30.7kWh
<b>AC Output Data (On-grid)</b>	
Rated AC power	12000W
Max. AC power output to grid	13200VA
Max. AC power from grid	16500VA
Max. AC current output to grid	20A
Max. AC current from grid	25A
Rated grid voltage	3/N/PE, 220/380V, 230/400V, 240/415V
Grid voltage range	184V~276V
Rated grid frequency	50/60Hz
Output power factor	~1(0.8 leading to 0.8 lagging)
Output THDi (@Rated output)	<3%
<b>AC Output Data (Back-up)</b>	
Rated output power	12000W
Max. output power	13200VA
Peak output power, Duration	20000VA, 60s
Max. output current	20A
Rated output voltage	3/N/PE, 220/380V, 230/400V, 240/415V
Rated output frequency	50/60Hz
Output THDv (@Liner load)	<3%
Switch time	<10ms
<b>Efficiency</b>	
Max. efficiency	98.2%
Euro efficiency	97.4%
<b>Protection</b>	
DC switch	Yes
Protection	PV reverse polarity protection / Output over current protection / Output over voltage protection Anti-islanding protection / Residual current detection / Insulation resistor detection / Battery reverse protection
Surge protection level	PV: Type II, AC:Type III
<b>General Data</b>	
Dimension	550×353×210mm
Weight	27kg
Inverter topology	Non-isolated
Standby self consumption	<15W
Operating temperature range	-30 C ~60 C
Relative humidity	0~100%
Operating altitude	<3000m
Cooling	Natural
Protection degree	IP65
Display	OLED&LED
Communication	RS485,Optional: WiFi/LAN
Standard warranty	Standard 5 years
<b>Certificates</b>	
EMC	EN61000
Safety	IEC62109-1, IEC62109-2
Grid	EN50549-1, TOR Generator Type A, VDE-AR-N-4105, CEI 0-21/CEI 0-16, UNE 206006, UNE206 007-1

Optimize Energy · Optimize Life!



# UHB High Voltage Battery System



UHB-50Ah series is a high voltage battery that offers multiple energy storage options through an expandable modular design (max.12 modules combined), which further simplifies installation and O&M with multiple smart functions.

The safest battery cell technology (LFP) comes with a high charging rate, ensuring superior performance.



**Original battery active balance technology**



**Max. battery capacity 30.7kWh**



**Easy installation with modular and stacked design**



**Remote diagnosis and real-time data monitoring**

<b>Model</b>	<b>UHB3073</b>
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<b>Electrical Parameters</b>	
No. of series battery	12
Rated energy (kWh)	30.7
Usable energy (kWh)	27.6
Rated capacity (Ah)	50
Rated voltage (V)	614.4
Voltage range (V)	537.6~691.2
Charge current (A)	25 (Recommended) /50 (MAX)
Discharge current (A)	25 (Recommended) /50 (MAX)
Cycle times	80% DOD, cycles>6000, residual capacity>70%
Communication	RS485/RS232/CAN 2.0
Protection function	Over voltage / Under voltage / Over temperature / Low temperature / Over current / Short circuit
<b>Working Conditions</b>	
Installation	Indoor
Working temperature (°C)	-10°C ~50°C
Optimum working temperature(°C)	20°C ~30°C
Storage temperature(°C)	-30°C ~60°C
IP class	IP20
Humidity	5%-95%
Altitude (m)	≤2000
Cooling	Natural
Size [W x H x D, mm]	851*255*1430
Weight (kg)	376
Certificate	UN38.3

UHB-50Ah Series - Single page - 20220815-EN-V1.1. Information may be subject to change without notice during product improving.

