Ucanpower, Bring Energy to Life!

CAN POWER

UHC Series 4~12KW
Three Phase Hybrid Inverter



UHC - 4~12KT 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

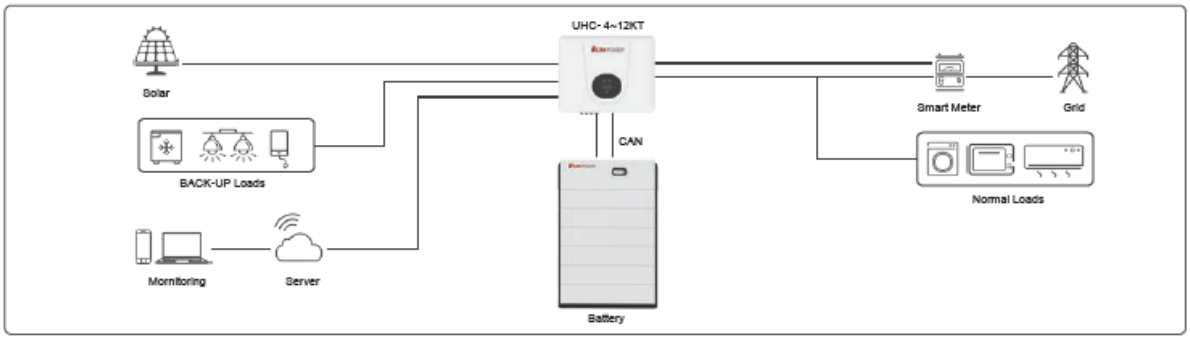
- IP65 protection degree
- Compact and elegant design with integrated diecasting technology
- Long-term efficient operation with advanced heat dissipation design

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



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Model	UHC-4KT	UHC-5KT	UHC-6KT	UHC-8KT	UHC-10KT	UHC-12KT
PV Input Data						
Max.PV power	6000W	7500W	9000W	12000W	15000W	18000W
Max. DC voltage	1000V					
Start-up voltage	135V					
MPPT voltage range	120~950V	120~950V	120~950V	200~950V	200~950V	200~950V
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					
Battery Input Data						
Battery type	Li-Ion(LFP)					
Battery voltage range	135~750V					
Max. charge power	4000W	5000W	6000W	8000W	10000W	12000W
Max. charge/discharge current	25A/25A					
Communication	CAN					
AC Output Data (On-grid)						
Rated AC power	4000W	5000W	6000W	8000W	10000W	12000W
Max. AC power output to grid	4400VA	5500VA	6600VA	8800VA	11000VA	13200VA
Max. AC power from grid	8000VA	10000VA	12000VA	16000VA	16500VA	16500VA
Max. AC current output to grid	6.7A	8.3A	10A	13.3A	16.5A	20A
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%					
AC Output Data (Back-up)						
Rated output power	4000W	5000W	6000W	8000W	10000W	12000W
Max. output power	4400W	5500VA	6600VA	8800VA	11000VA	13200VA
Peak output power, Duration	8000VA, 60s	10000VA, 60s	12000VA, 60s	16000VA, 60s	16500VA, 60s	16500VA, 60s
Max. output current	6.7A	8.3A	10A	13.3A	16.5A	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					
Efficiency						
Max. efficiency	98.1%	98.1%	98.1%	98.2%	98.2%	98.2%
Euro efficiency	97.3%	97.3%	97.3%	97.4%	97.4%	97.4%
Protection						
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					
General Data						
Dimension	550×435×210mm					
Weight	26kg					
Inverter topology	Non-isolated					
Standby self consumption	<15W					
Operating temperature range	-30℃~60℃					
Relative humidity	0~100%					
Operating altitude	<3000m					
Cooling	Natural					
Protection degree	IP65					
Display	LCD&LED					
Communication	RS485,Optional： WiFi/LAN					
Standard warranty	Standard 5 years					
Certificates						
EMC	EN61000					
Safety	IEC62109-1, IEC62109-2					
Grid	EN50549-1, TOR Generator Type A, VDE-AR-N-4105, CEI 0-21, UNE 206006, UNE206 007-1					

Information may be subject to change without notice during product improving.

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