

# UHC Series 15~20KW Three Phase Hybrid Inverter

UHC-15~20KT suit 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 locally, 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
- Max. 40A battery charge/discharge current



### High Reliability

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



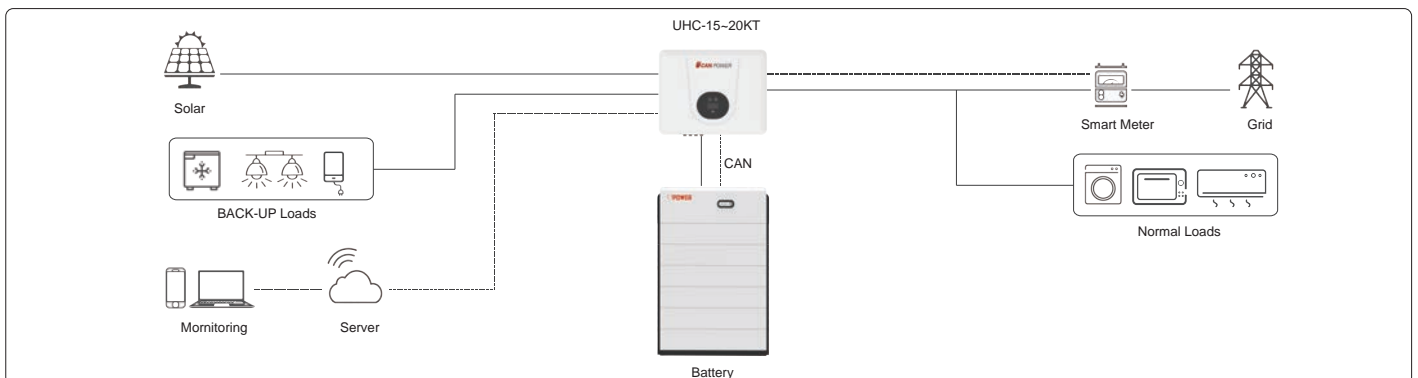
### High Performance

- 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
- Easy wifi configuration via APP



| Model                           | UHC-15KT  | UHC-20KT     |
|---------------------------------|---|--------------|
| <b>PV Input Data</b>            |   |              |
| Max.PV power                    | 22500W  | 30000W       |
| Max. DC voltage                 | 1000V   |              |
| Start-up voltage                | 135V  |              |
| MPPT voltage range              | 200~950V  |              |
| Rated DC voltage                | 620V  |              |
| No. of MPP trackers             | 2   |              |
| No. of string per MPP tracker   | 2/2   |              |
| Max. input current              | 30A/30A   |              |
| Max. short current              | 40A/40A   |              |
| <b>Battery Input Data</b>       |   |              |
| Battery type                    | Li-Ion(LFP)   |              |
| Battery voltage range           | 135~750V  |              |
| Max. charge power               | 15000W  | 20000W       |
| Max. charge/discharge current   | 40A/40A   |              |
| Communication                   | CAN   |              |
| <b>AC Output Data (On-grid)</b> |   |              |
| Rated AC power                  | 15000W  | 20000W       |
| Max. AC output to grid          | 16500VA   | 22000VA      |
| Max. AC power from grid         | 30000VA   | 30000VA      |
| Max. AC current output to grid  | 25A   | 33.5A        |
| Max. AC current from grid       | 43.5A   | 43.5A        |
| Rated grid voltage              | 3/N/PE, 220/380V, 230/400V, 240/415V  |              |
| Grid voltage range              | 184~276V  |              |
| 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              | 15000W  | 20000W       |
| Max. output power               | 16500VA   | 22000VA      |
| Peak output power, Duration     | 25000VA, 60s  | 25000VA, 60s |
| Max. output current             | 25A   | 33.5A        |
| 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                 | 98.4%   |              |
| Euro efficiency                 | 97.5%   |              |
| <b>Protection</b>               |   |              |
| DC switch                       | Yes   |              |
| Protection                      | PV reverse polarity protection / Output over current protection / Output over voltage protection<br>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                       | 550x435x210mm   |              |
| Weight                          | 31kg  |              |
| Inverter topology               | Non-isolated  |              |
| Standby self consumption        | <15W  |              |
| Operating temperature range     | -30 C ~60 C   |              |
| Relative humidity               | 0~100%  |              |
| Operating altitude              | <3000m  |              |
| Cooling                         | Fan   |              |
| 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, UNE 206006, UNE206 007-1  |              |