

# 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 Performance**

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



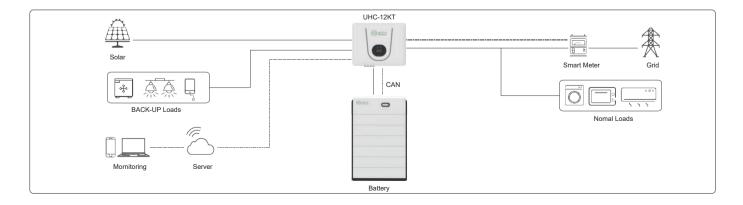
## **High Reliability**

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



#### **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

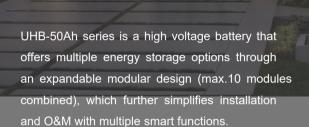




| Max Dr. Variage  |                                       |   |
|--|---------------------------------------|---|
| Max PD voltage         18000W           Start up voltage         1939W           WPP voltage range         1939W           Rate OD voltage         2000W           Rate OD voltage         22           No of alling part MPP trackers         2           No of alling part MPP trackers         1948W           Max. Input current         1841/5A           Max. Input current         1841/5A           Max. And current         1942/2A           Staffery voltage range         1957/56V           Max. And part for the part Mex. Properties of the part of   | Model                                 | UHC-12KT  |
| Max. Dc. voltage   1900/V   1900    | PV Input Data                         |   |
| Sart-up voltage   Sart-up vo | Max.PV power                          | 18000W  |
| MPPT votage range  | Max. DC voltage                       | 1000V   |
| Rate DC voltage   SGOV   No. of MIPP intextors   2   | Start-up voltage                      | 135V  |
| No. of String per MP Trackers  | MPPT voltage range                    | 120~950V  |
| No. of string per MPP tracker   Max. Hight Current   154/15A     Max. Hight Current   20A/20A     Max. Hight Current   20A/20A     Settlery Input Data   135-750V     Bettlery Voltage range   135-750V     Max. Charge power   12000W     Max. Charge power   12000W     Max. Charge power   12000W     Max. Androg-discharge current   256/00W     AC Output Data (Or-grid )     Max. AC Down Charge of 12000W     Max. AC Current output to grid   15000W     Max. AC Current output power    | Rated DC voltage                      | 620V  |
| Max inclument         15A/15A           Backery Input Date         Littory           Battery type         Littory           Battery type         Littory           Bastley voltage range         158-750V           Max. charge power         12000W           Max. charge power         12000W           Acc Output Date (Orugid)         Capacity           Rated AC power         12000W           Max. AC power output to grid         13200VA           Max. AC power form grid         16500VA           Max. AC power form grid         16500VA           Max. AC current from grid         25A           Max. AC current from grid         25A           Max. AC power found grid         16500VA           Max. AC current from grid         25A           Max. AC power found grid         25A           Max. Grid frequency         25C           Colidate of the found grid         34A           Colidate of the found grid         34A           Max. Colleger fame.         41CB 18660grid           Max. colleger fame.         12000W  | No. of MPP trackers                   | 2   |
| Max inclument         15A/15A           Backery Input Date         Littory           Battery type         Littory           Battery type         Littory           Bastley voltage range         158-750V           Max. charge power         12000W           Max. charge power         12000W           Acc Output Date (Orugid)         Capacity           Rated AC power         12000W           Max. AC power output to grid         13200VA           Max. AC power form grid         16500VA           Max. AC power form grid         16500VA           Max. AC current from grid         25A           Max. AC current from grid         25A           Max. AC power found grid         16500VA           Max. AC current from grid         25A           Max. AC power found grid         25A           Max. Grid frequency         25C           Colidate of the found grid         34A           Colidate of the found grid         34A           Max. Colleger fame.         41CB 18660grid           Max. colleger fame.         12000W  | No. of string per MPP tracker         |   |
| Max. and trurent         20A20A           Eattery tiput Data         Li-lon           Battery voltage ranger         158-750V           Max. charge pager         158-750V           Max. charge power         12000W           Max. Adapt power         25A-25A           Capacity         25-854Vh           AC Output Data (On-grid)         12000W           Max. AC power output to grid         18090WA           Max. AC power output to grid         18090WA           Max. AC current output to grid         18090WA           Max. AC current output to grid         20A           Max. AC current form grid         20A           Max. AC current output to grid         20A           Max. AC power output to grid         18090WA           Max. AC power output to grid         20A           Rated grid voltage         3NNPE, 201380V, 23040V, 24041SV           Gid voltage range         1804-V-278V           Rated grid voltage         3NNPE, 201380V, 23040V, 24041SV           AC output Their (Sellad cutput)         48           AC output Data (Sellad cutput)         48           Max. output power         12000W           Max. output power         13200VA           Max. output power         19 <tr< td=""><td></td><td>15A/15A</td></tr<>  |                                       | 15A/15A   |
| Battery liput Data   |                                       |   |
| Battery you pen         Li-lom           Battery you grange         1355-750/V           Max. charge power         12000W           Max. Imagedischarge current         254-25A           Curpacty         256-82KBA           AC Output Data (On-grid)         32000W           Max. AD power output to grid         13200VA           Max. AD power from grid         16800VA           Max. AD current output to grid         16800VA           Max. AD current output to grid         20A           Max. AD current from grid         20A           Max. AD current output to grid         20A           Max. AD current from grid         20A           Max. AD current from grid         20A           Max. AD current from grid         20A           Rated grid voltage         3NIPE_220380V_22040V_240445V           Rated grid voltage         1600-802           Rated grid voltage         1814-278V           Rated grid froughty         5000042           Voluget Third (Backety)         12000W           Max. output power   |                                       | 1 20,326.   |
| Battery voltage range  |                                       | Lidon   |
| Max. charge power         12000W           Max. charge discharge current         25A25A           Capacity         25KWh           AC Output Data (on-grid         12000W           Max. AC power cutput to grid         12000WA           Max. AC power cutput to grid         16550WA           Max. AC current from grid         20A           Max. AC current from grid         25A           Rated grid vottage         3N/PE, 220/88/V, 230/40/V, 240/415V           Rated grid requency         50500Hz           Output power factor         10, 40-40/40           Output power factor         10, 80-80/40           Output power factor         10, 80-80/40           Output power factor         10, 80-80/40           AC Output Date (Back-up)         12000W           Max. colput power         13000VA           Max. colput power         13000VA           Max. colput power         13000VA           Max. colput power, Duration         2000VA, 80e           Max. colput power, Duration         2000VA, 80e           Max. colput power, Duration         98.2%           Event diction         98.2%           Even diction power         98.2%           Even officiency         98.2%           Evo  |                                       |   |
| Max. Actargedischarge current         25A/25A           Capacity         256KWh           Act Output Data (On-grid)         120000W           Max. AC power form grid         132000VA           Max. AC power form grid         20A           Max. AC current from grid         20A           Max. AC current from grid         25A           Rated grid voltage         3NPE, 220/380V, 230/400V, 240/415V           Grid voltage range         156000VA           Rated grid frequency         508061z           Cutput power factor         -1(0.8 leading to 0.8 legging)           Cutput THD (@Rated cutput)         43%           AC Output Data (Back up)         43%           Rated output power         12000W           Max. output power         12000W           Max. output power         12000W           Max. output power, Duration         2000WA           Max. output power, Duration         2000WA           Max. output current         20A           Rated output though (Gliner load)         3NPE, 220/380V, 230/400V, 240/415V           Rated output flav (Gliner load)         3NPE, 220/380V, 230/400V, 240/415V           Rated output flavourent         90/84           Rated output flavourent         90/84           Euro ef   |                                       |   |
| Capable Date One-grid         Exercise AC power         12000W           Max. AC power output to grid         13200VA           Max. AC power output to grid         16550VA           Max. AC current output to grid         20A           Max. AC current routput to grid         25A           Max. AC current routput to grid         25A           Rated grid voltage         184V-276V           Rated grid routput         5050042           Output power factor         5050042           Output power factor         40 6 8 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9   |                                       | ***   |
| Rated AC power   12000W  |                                       |   |
| Rated AC power         12000W           Max. AC power from grid         18200VA           Max. AC current output to grid         20A           Max. AC current output to grid         25A           Max. AC current output to grid         25A           Rated grid voltage         1847~276V           Grid voltage range         1847~276V           Rated grid frequency         5060042           Output power factor         1(0.8 leading to 0.8 lagging)           Output ThDIC (Rated output)         33%           AC Output Data (Back-up)         12000W           Rated output power         12000W           Max. output power         12000WA           Max. output power, Duration         2000VA           Rated output Voltage         3NIVE. 220/380V, 2304/00V, 240/415V           Switch         Yes  |                                       | 25.6KWh   |
| Max. AC power output to grid         13200VA           Max. AC power from grid         20A           Max. AC current comprid         25A           Max. AC current from grid         25A           Rated grid voltage         3NIPE, 220/380V, 230/40V, 240/415V           Grid voltage range         184V-276V           Stated grid frequency         50800Hz           Output power factor         -10.8 leading to 88 lagging)           Output power factor         12000W           AC Output Dower         12000W           Max. cutput power         12000W           Max. output power         12000W           Max. output power, Duralion         20000VA, 80s           Max. output power, Duralion         20000VA, 80s           Max. output current         20A           Rated output voltage         3NIVE, 20036VV, 23040V, 240/415V           Rated output voltage         3NIVE, 20036VV, 23040VV, 240/415V           Rated output voltage         3NIVE, 20036VV, 23040VV, 240/415V <tr< td=""><td></td><td></td></tr<>   |                                       |   |
| 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         -10.8 leading to 0.8 lagging)           Output THDI (Brade output)         43%           AC Output Data (Back-up)         12000W           Max. output power         12000W           Max. output power, Duration         20000VA, 60s           Max. output power, Duration         20000VA, 60s           Max. output requency         50/604z           Quiput ThIDV (@Liner load)         43%           Switch time         43/8           Efficiency         82.2%           Euro efficiency         98.2%           Euro efficiency         98.2%           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 selected protection / Series output for protection / Residual current detection / Insulation resistor detection / Battery reverse protection / Protection / Series output for protection / Series output for protection / Series output for protection / Series out   | <u> </u>                              |   |
| Max. AC current output to grid         25A           Max. AC current from grid         25A           Rated grid voltage         3/N/PE, 220/380V, 230/40V, 240/415V           Grid voltage range         18/AV-276V           Rated grid requency         50060H2           Output power factor         -1(0.8 leading to 0.8 lagging)           Output ThDI (@Rated output)         -3%           AC Output Date (Back-up)  |                                       |   |
| Max. AC current from grid         25A           Rated grid voltage         3/N/PE, 220/380V, 230/40VQ, 240/415V           Grid voltage range         184V-276V           Rated grid frequency         50/60Hz           Output prefator         1(0.8 leading to 0.8 lagging)           Output ThDi (@Rated output)         3%           AC Output Data (Back-up)         12000W           Max. 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, 230/40VV, 240/415V           Rated output frequency         5/060Hz           Output ThDV (@Liner load)         <3%  |                                       |   |
| Rated grid voltage         3.NPE, 220380V, 230400V, 240415V           Grid voltage range         184V-278V           Rated grid frequency         5060Ntz           Output power factor         +1(0.8 leading to 0.8 lagging)           Output ThD1 (@Rated output)         -3%           AC Output Data (Back-up)         12000W           Rated output power         12000W           Max. output power         13200VA           Peak output power, Duration         20000VA, 60s           Max. output outgas         3/NPE, 220380V, 230440V, 240/415V           Rated output voltage         3/NPE, 220380V, 230/400V, 240/415V           Rated output frequency         50/60Hz           Output ThD (@Line load)         43%           Switch time         +10ms           Efficiency         97.4%           Euro efficiency         97.4%           Protection         Yes           De switch         Yes           Postection         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           Central patting temperature range         450V-353-2210mm   | Max. AC current output to grid        | 20A   |
| Grid voltage range         184V+276V           Rated grid frequency         50/60Hz           Output Prefetor         1-(10.8 leading to 0.8 lagging)           Output ThDi (@Rated output)         <3%  | Max. AC current from grid             | 25A   |
| Rated grid frequency         \$0160Hz           Output prower factor         -1(1.8 leading to 0.8 leaging)           Cutput put pate (Back-up)         3%           Rated output power         12000W           Max. cutput power         13200VA           Peak output power, Duration         20000VA, 60s           Max. output current         20A           Rated output votage         3/NPE, 220/380V, 230/400V, 240/415V           Rated output foreload         58/60Hz           Output THDV (@Liner load)         4/%           Switch time         10/008           Efficiency         98.2%           Euro efficiency         98.2%           Protection         PV reverse polarity protection / Output over current protection / Output over voltage protection and Anti-islanding protection / Peak (author to reverse protection / Anti-islanding protection / Residual current detection / Insulation resistor detection / Battery reverse protection / Secretary (author to reverse prot   | Rated grid voltage                    | 3/N/PE, 220/380V, 230/400V, 240/415V  |
| Output ThOwer factor         ~1(0.8 leading to 0.8 lagging)           Output ThDi (@Rated output)         <3%           AC Output Date (Back-up)           Rated output power         12000W           Max. output power         13220VA           Peak output power, Duration         2000WA           Max. output current         200A           Rated output voltage         3/NPE, 220/380V, 230/400V, 240/415V           Rated output frequency         506/08/Lg           Output THDV (@Liner load)         43%           Switch time         10ms           Euro efficiency           Max. efficiency         98.2%           Euro efficiency           Protection           Protection           PV reverse polarity protection / Output over vortinge protection Particular of the protection / Anti-Islanding protection / Residual current detection / Insulation resistor detection / Battery reverse protection surper protection Particular of the protection of  | Grid voltage range                    | 184V~276V   |
| Output power factor         ~1(0.8 leading to 0.8 lagging)           Output THDI (@Rated output)         <3%           AC Output Date (Back-w)           Rated output power         12000W           Max. output power, Duration         20000VA, 60s           Max. output querent         20A           Rated output voltage         3NPE, 220/380V, 230/40VV, 240/415V           Rated output frequency         50/60Hz           Output THDV (@Liner load)         <3%           Switch time         10           Efficiency         98.2%           Bax. efficiency         98.2%           Protection         Protection           Protection         PV reverse polarity protection / Output over voltage protection of Anti-islanding protection / Residual current detection / Insulation resistor detection / Battery reverse protection anti-islanding protection / Residual current detection / Insulation resistor detection / Battery reverse protection / Series (and the protection of the protection / Series (and the protection / Seri   | Rated grid frequency                  | 50/60Hz   |
| Output THDI (@Rated output)         <3%           AC Output Data (Back-up)           Rated output power         12000W           Max. output power, Upration         20000VA, 60s           Max. output power, Duration         20000VA, 60s           Max. output voltage         3/N/PE, 20/380V, 230/400V, 240/415V           Rated output voltage         3/N/PE, 20/380V, 230/400V, 240/415V           Rated output frequency         50/60Hz           Output THDV (@Iner load)         4/3%           Switch time         10/20/20/20/20/20/20/20/20/20/20/20/20/20   |                                       | ~1(0.8 leading to 0.8 lagging)  |
| AC Output Data (Back-up)           Rated output power         12000W           Max. output power, Duration         20000VA, 60s           Max. output current         200           Rated output frequency         5060Hz           Rated output frequency         5060Hz           Output THDv (@Liner load)         3%           Switch time         10m           Efficiency         98.2%           Burne efficiency         97.4%           Protection         97.4%           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 anti-Islanding protection / Residual current detection / Insulation resistor detection / Battery reverse protection anti-Islanding protection / Residual current detection / Insulation resistor detection / Battery reverse protection anti-Islanding protection / Residual current detection / Insulation resistor detection / Battery reverse protection anti-Islanding protection / Residual current detection / Insulation resistor detection / Battery reverse protection anti-Islanding protection / Residual current detection / Insulation resistor detection / Battery reverse protection anti-Islanding protection / Residual current detection / Insulation resistor detection / Battery reverse protection anti-Islanding protection / Residual current detection / Insulation resistor detection / Battery reverse protection anti-Islanding protection / Residual current de  | <u> </u>                              |   |
| 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%  |                                       |   |
| Max. output power         13200VA           Peak output power, Duration         20000VA, 60s           Max. output current         200A           Rated output voltage         3/N/PE, 220/380V, 230/400V, 240/415V           Rated output frequency         50/60Hz           Output THDV (BLiner load)         3%           Switch time         10ms           Efficiency         88.2%           Euror efficiency         98.2%           Euror efficiency         98.2%           Post         7.4%           Protection         97.4%           Protection         PV reverse polarity protection / Very           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 reverse polarity protection / Qutput over current protection / Battery reverse protection           Surge protection level         PV reverse polarity protection / Sesidual current detection / Insulation resistor detection / Battery reverse protection           Bursension         \$0.500000000000000000000000000000000000  |                                       | 12000W  |
| Peak output power, Duration         20000VA, 60s           Max. output current         20A           Rated output voltage         3/N/PE, 220/380V, 230/40/15V           Rated output frequency         50/60Hz           Output THDv (@Liner load)         <3%  |                                       |   |
| Max. output current         20A           Rated output voltage         3/N/PE, 22/380V, 230/400V, 240/415V           Rated output frequency         50/60Hz           Output THDV (@Liner load)         <3%  | · · ·                                 |   |
| Rated output voltage         3/N/PE, 220/380V, 230/400V, 240/415V           Rated output frequency         50/60Hz           Output THDV (@Liner load)         <3%   |                                       |   |
| Rated output frequency         50/60Hz           Output THDV (@Liner load)         <3%   | <u> </u>                              |   |
| Output THDv (@Liner load)         <3%  |                                       |   |
| Switch time         <10ms  |                                       |   |
| Efficiency           Max. efficiency         98.2%           Euro efficiency         97.4%           Protection           Pot switch         Yes           Pot switch         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 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           General Data         PV: Type II, AC:Type III           General Data         27kg           Dimension         \$50×353×210mm           Weight         27kg           Inverter topology         Non-isolated           Standay eff consumption         < 15kW   | · · · · · · · · · · · · · · · · · · · |   |
| Max. efficiency         98.2%           Euro efficiency         97.4%           Protection           Vesition           PV reverse polarity protection / Output over current protection / Output over voltage protection Protection level           PV reverse polarity protection / Insulation resistor detection / Battery reverse protection           Surge protection level         PV reverse polarity protection / Insulation resistor detection / Battery reverse protection           Surge protection level           PV: Type II, AC:Type III           General Data           Emeral Data           Dimension           S50×353×210mm           Weight           27kg           Inverter topology         Non-isolated           S15W           Operating temperature range         - 30 C -60 C           Relative humidity         O-100%           Operating altitude         - 300mm           Cooling         Natural           Protection degree         IP65           Display         O LED&LED           Communication         Relative Inver   |                                       | <10ms   |
| Euro efficiency         97.4%           Protection         Yes           Protection         PV reverse polarity protection / Output over current protection / Output over voltage protection           Brotection         Anti-islanding protection / Residual current detection / Insulation resistor detection / Battery reverse protection           Surge protection level         PV: Type II, AC: Type III           General Data           Dimension         \$50×353×210mm           Weight         27kg           Inverter topology         Non-isolated           Standby self consumption         <15W  |                                       |   |
| Protection           DC switch         Yes           PV reverse polarity protection / Output over urrent protection / Output over voltage protection Anti-islanding protection / Residual current detection / Insulation resistor detection / Battery reverse protection           Surge protection level         PV reverse polarity protection / Pestidual current detection / Insulation resistor detection / Battery reverse protection           Surge protection level         PV: Type II, AC:Type III           General Data           Dimension         550×353×210mm           Weight         27kg           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         OLED&LED           Communication         RS485,Optional: WiFi/LAN           Standard warranty         Standard 5 years           EMC         EN61000           Safety         IEC62109-1, IEC62109-2   | Max. efficiency                       | 98.2%   |
| DC switch         Yes           Protection         PV reverse polarity protection / Output over current protection / Output over voltage protection           Surge protection level         PV: Type II, AC:Type III           General Data           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           Certificates           EMC         EN61000           Safety         IEC62109-1, IEC62109-2  | Euro efficiency                       | 97.4%   |
| Protection         PV reverse polarity protection / Output over current protection / Output over voltage protection           Surge protection level         PV: Type II, AC:Type III           General Data         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           Certificates           EMC         EMC           Safety         IEC62109-1, IEC62109-2   | Protection                            |   |
| 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 550×353×210mm  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  EMC EN61000 Safety IEC62109-1, IEC62109-2   | DC switch                             | Yes   |
| Surge protection level         PV: Type II, AC:Type III           General Data           Dimension         550×353×210mm           Weight         27kg           Inverter topology         Non-isolated           Standby self consumption         <15W  | Protection                            |   |
| General Data           Dimension         550×353×210mm           Weight         27kg           Inverter topology         Non-isolated           Standby self consumption         <15W  | Surge protection level                | PV: Type II, AC:Type III  |
| Dimension         550×353×210mm           Weight         27kg           Inverter topology         Non-isolated           Standby self consumption         <15W   | <u> </u>                              |   |
| Weight27kgInverter topologyNon-isolatedStandby self consumption<15W  |                                       | 550×353×210mm   |
| Inverter topology Standby self consumption Operating temperature range Relative humidity Operating altitude Cooling Protection degree Display Communication Standard warranty Standard 45 years  EMC Safety  Non-isolated Non-isolated  15W Non-isolated Natural  160  170  170  170  170  170  170  170   |                                       |   |
| Standby self consumption <15W Operating temperature range  |                                       | -   |
| Operating temperature range Relative humidity Operating altitude Operating altitude Cooling Natural Protection degree IP65 Display OLED&LED Communication RS485,Optional: WiFi/LAN Standard warranty Standard 5 years  Certificates  EMC EN61000 Safety ICC62109-1, IEC62109-2   | , ,,                                  |   |
| 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  Certificates  EMC EN61000 Safety IEC62109-1, IEC62109-2  |                                       |   |
| Operating altitude <3000m  Cooling Natural  Protection degree IP65  Display OLED&LED  Communication RS485,Optional: WiFi/LAN  Standard warranty Standard 5 years  Certificates  EMC EN61000  Safety IEC62109-1, IEC62109-2   |                                       |   |
| Cooling         Natural           Protection degree         IP65           Display         OLED&LED           Communication         RS485,Optional: WiFi/LAN           Standard warranty         Standard 5 years           Certificates         EMC           Safety         IEC62109-1, IEC62109-2   | <u> </u>                              |   |
| Protection degree         IP65           Display         OLED&LED           Communication         RS485,Optional: WiFi/LAN           Standard warranty         Standard 5 years           Certificates         EMC           Safety         IEC62109-1, IEC62109-2   | · · ·                                 |   |
| Display         OLED&LED           Communication         RS485,Optional: WiFi/LAN           Standard warranty         Standard 5 years           Certificates         EMC           EMC         EN61000           Safety         IEC62109-1, IEC62109-2  |                                       |   |
| Communication RS485,Optional: WiFi/LAN Standard warranty Standard 5 years  Certificates  EMC EN61000 Safety IEC62109-1, IEC62109-2   | Protection degree                     |   |
| Standard warranty         Standard 5 years           Certificates         EMC         EN61000           Safety         IEC62109-1, IEC62109-2  | Display                               | OLED&LED  |
| Certificates           EMC         EN61000           Safety         IEC62109-1, IEC62109-2   | Communication                         | RS485,Optional: WiFi/LAN  |
| EMC         EN61000           Safety         IEC62109-1, IEC62109-2  | Standard warranty                     | Standard 5 years  |
| Safety IEC62109-1, IEC62109-2  | Certificates                          |   |
| ·  | EMC                                   | EN61000   |
| ·  |                                       |   |
|  | Grid                                  | EN50549-1, TOR Generator Type A, VDE-AR-N-4105, CEI 0-21/CEI 0-16, UNE 206006, UNE206 007-1 |



# **UHB High Voltge Battery System**



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



Max. battery capacity 25.6kWh



Easy installation with modular and stacked design

Original battery active balance technology



Remote diagnosis and real-time data monitoring



| Model                           | UHB2560  |  |
|---------------------------------|--|--|
| Electrical Parameters           |  |  |
| No. of series battery           | 10   |  |
| Rated energy (kWh)              | 25.6   |  |
| Usable energy (kWh)             | 23   |  |
| Rated capacity (Ah)             | 50   |  |
| Rated voltage (V)               | 512  |  |
| Voltage range (V)               | 448~576  |  |
| 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 |  |
| Working Conditions              |  |  |
| Installation                    | Indoor   |  |
| Working temperature (℃)         | -10 ℃~50 ℃   |  |
| Optimum working temperature( C) | 20℃~30℃  |  |
| Storage temperature(C)          | -30 ℃~60 ℃   |  |
| IP class                        | IP20   |  |
| Humidity                        | 5%-95%   |  |
| Altitude (m)                    | ≤2000  |  |
| Cooling                         | Natural  |  |
| Size [W x H x D, mm]            | 851*255*1170   |  |
| Weight (kg)                     | 314  |  |
| Certificate                     | UN38.3   |  |

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

