

High-Frequency Type

ONLINE UPS

TH-C SERIES  
1KVA-10KVA

FEATURES

- ◆ Different power configuration flexibility to achieve a multi - purpose machine, power customized available.
- ◆ Selectable digital charger from 1A ~12A, match for different appliance.
- ◆ Wide input voltage range: 208/220/230/240V for option.
- ◆ High efficiency up to 95.5%, lower power loss and save cost.
- ◆ Output power factor up to 1.0 ,as an industry leader, super high load efficiency.
- ◆ Green power ECO mode, power efficiency up to 98.5%.
- ◆ Smart adjustable setting, support voltage compensation of output to transformer.

APPLICATIONS:

- ◆ Network,data centre,servers and workstations,control system,communication system, Telecom system,power station,security system,hospital,school,home and office etc.



SPECIFICATION

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| Model                   | HT-C 1K                                                                                                                                                                                                                             | HT-C 1KL    | HT-C 2K                             | HT-C 2KL         | HT-C 3K                           | HT-C 3KL                                               | HT-C 6K                                                            | HT-C 6KL    | HT-C 10K             | HT-C 10KL   |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-------------------------------------|------------------|-----------------------------------|--------------------------------------------------------|--------------------------------------------------------------------|-------------|----------------------|-------------|
| Rated Capacity          | 1KVA / 1000W                                                                                                                                                                                                                        |             | 2KVA / 2000W                        |                  | 3KVA / 3000W                      |                                                        | 6KVA / 6000W                                                       |             | 10KVA / 10000W       |             |
| INPUT                   |                                                                                                                                                                                                                                     |             |                                     |                  |                                   |                                                        |                                                                    |             |                      |             |
| Input Formats           | L + N + PE                                                                                                                                                                                                                          |             |                                     |                  |                                   |                                                        |                                                                    |             |                      |             |
| Rated Input Voltage     | 208 / 220 / 230 / 240VAC                                                                                                                                                                                                            |             |                                     |                  |                                   |                                                        |                                                                    |             |                      |             |
| Voltage Range           | 110 ~ 300VAC ( 110~176VAC, 280~300VAC Power Limited )                                                                                                                                                                               |             |                                     |                  |                                   |                                                        |                                                                    |             |                      |             |
| Frequency Range         | 50/60Hz ± 6Hz, ± 10Hz (Setable)                                                                                                                                                                                                     |             |                                     |                  |                                   |                                                        |                                                                    |             |                      |             |
| Input Power Factor      | ≥0.99                                                                                                                                                                                                                               |             |                                     |                  |                                   |                                                        |                                                                    |             |                      |             |
| Harmonic Distortion     | ≤3% THD(Linear Load), ≤5% THD(Non-Linear Load) PF=0.8                                                                                                                                                                               |             |                                     |                  |                                   |                                                        | ≤5% THD(Linear Load), ≤8% THD(Non-Linear Load) PF=0.8              |             |                      |             |
| OUTPUT                  |                                                                                                                                                                                                                                     |             |                                     |                  |                                   |                                                        |                                                                    |             |                      |             |
| Output Formats          | L + N + PE                                                                                                                                                                                                                          |             |                                     |                  |                                   |                                                        |                                                                    |             |                      |             |
| Output Voltage          | 208 / 220 / 230 / 240VAC                                                                                                                                                                                                            |             |                                     |                  |                                   |                                                        |                                                                    |             |                      |             |
| Voltage Regulation      | ±1%                                                                                                                                                                                                                                 |             |                                     |                  |                                   |                                                        |                                                                    |             |                      |             |
| Frequency Range         | AC mode: same as AC , Battery mode: 50/60Hz ± 1%                                                                                                                                                                                    |             |                                     |                  |                                   |                                                        |                                                                    |             |                      |             |
| Harmonic Distortion     | ≤1% THD(Linear Load), ≤3% THD(Non-Linear Load) PF=0.8                                                                                                                                                                               |             |                                     |                  |                                   | ≤2% THD (Linear Load), ≤5% THD(Non-Linear Load) PF=0.8 |                                                                    |             |                      |             |
| Power Factor            | 1                                                                                                                                                                                                                                   |             |                                     |                  |                                   |                                                        | 1                                                                  |             |                      |             |
| Transfer Time           | AC mode to Batt. Mode: 0ms, Inverter mode to Bypass mode: 4ms                                                                                                                                                                       |             |                                     |                  |                                   |                                                        |                                                                    |             |                      |             |
| Overlord Capacity       | AC Mode:                                                                                                                                                                                                                            |             | Battery Mode:                       |                  |                                   |                                                        | AC Mode:                                                           |             | Battery Mode:        |             |
|                         | 30min@102%~110% Load                                                                                                                                                                                                                |             | 1min@102%~110% Load                 |                  |                                   |                                                        | 30min@102%~110% Load                                               |             | 10min@102%~110% Load |             |
|                         | 10min@110%~130% Load                                                                                                                                                                                                                |             | 10s@110%~130% Load                  |                  |                                   |                                                        | 10min@110%~130% Load                                               |             | 1min@110%~130% Load  |             |
|                         | 30s@130%~150% Load                                                                                                                                                                                                                  |             | 3s@130%~150% Load                   |                  |                                   |                                                        | 30s@130%~150% Load                                                 |             | 10s@130%~150% Load   |             |
|                         | 200ms@>150% Load                                                                                                                                                                                                                    |             | 200ms@>150% Load                    |                  |                                   |                                                        | 500ms@>150% Load                                                   |             | 500ms@>150% Load     |             |
| EFFICIENCY              |                                                                                                                                                                                                                                     |             |                                     |                  |                                   |                                                        |                                                                    |             |                      |             |
| AC Mode                 | Full load efficiency 94.5%@220VAC                                                                                                                                                                                                   |             | Full load efficiency 95.5%@220VAC   |                  | Full load efficiency 95.5%@220VAC |                                                        | Maximum efficiency 95.5%,Full load efficiency 95%                  |             |                      |             |
| Battery Mode            | Full load efficiency 89.5%@36VDC                                                                                                                                                                                                    |             | Full load efficiency 91.5%@72VDC    |                  | Full load efficiency 91.5%@96VDC  |                                                        | Maximum efficiency 95.3%,Full load efficiency 94.8%(20pcs battery) |             |                      |             |
| Battery Mode            | Full load efficiency 89.5%@24VDC                                                                                                                                                                                                    |             | Full load efficiency 91.5%@48VDC    |                  | Full load efficiency 91.5%@72VDC  |                                                        |                                                                    |             |                      |             |
| BATTERY                 |                                                                                                                                                                                                                                     |             |                                     |                  |                                   |                                                        |                                                                    |             |                      |             |
| Battery Quantity        | 7Ah x 2                                                                                                                                                                                                                             | 36V         | 7Ah x 4(6)                          | 72V              | 7Ah x 6(8)                        | 96V                                                    | 7Ah x 16(20)                                                       | 16~20pcs    | 7Ah x 16(20)         | 16~20pcs    |
| Backup Time             | Depend on user's requirement and configuration                                                                                                                                                                                      |             |                                     |                  |                                   |                                                        |                                                                    |             |                      |             |
| Charging Current        | TSC1K-3K: 1.0A(default) ,1-2A(adjustable) External battery back; TSC1KL-3KL: 5.0A(default) ,1-12A(adjustable) .<br>TSC6K-10K: 1.0A(default) ,1-12A(adjustable) External battery back; TSC6KL-10KL: 5.0A(default) ,1-12A(adjustable) |             |                                     |                  |                                   |                                                        |                                                                    |             |                      |             |
| ENVIRONMENT             |                                                                                                                                                                                                                                     |             |                                     |                  |                                   |                                                        |                                                                    |             |                      |             |
| Ambient Temperature     | 0 ~ 40℃                                                                                                                                                                                                                             |             |                                     |                  |                                   |                                                        |                                                                    |             |                      |             |
| Humidity                | 20% ~ 95%(No Condensing)                                                                                                                                                                                                            |             |                                     |                  |                                   |                                                        |                                                                    |             |                      |             |
| Storage Temperature     | -15 ~ 60℃(Battery: 0 ~ 40℃)                                                                                                                                                                                                         |             |                                     |                  |                                   |                                                        |                                                                    |             |                      |             |
| Altitude                | <1000m,Derating at above 1000m,maximum 4000m,Refer to IEC62040                                                                                                                                                                      |             |                                     |                  |                                   |                                                        |                                                                    |             |                      |             |
| INDICATORS              |                                                                                                                                                                                                                                     |             |                                     |                  |                                   |                                                        |                                                                    |             |                      |             |
| LCD                     | Working Mode / Load / Battery Power / Input / Output Ect.                                                                                                                                                                           |             |                                     |                  |                                   |                                                        |                                                                    |             |                      |             |
| CERTIFICATION           |                                                                                                                                                                                                                                     |             |                                     |                  |                                   |                                                        |                                                                    |             |                      |             |
| Certification           | EN / IEC 61000, EN / IEC 62040, GB / T4943, YD / T 1095, TLC etc.                                                                                                                                                                   |             |                                     |                  |                                   |                                                        |                                                                    |             |                      |             |
| PHYSICAL                |                                                                                                                                                                                                                                     |             |                                     |                  |                                   |                                                        |                                                                    |             |                      |             |
| Case Size (L*W*H)(mm)   | 276*145*225                                                                                                                                                                                                                         |             | 392*145*225 / 395*190*325           |                  | 395*190*225                       | 392*145*225                                            | 460*190*615                                                        | 395*190*325 | 460*190*615          | 395*190*325 |
| Weight (KG)             | 18.8 (2pcs)                                                                                                                                                                                                                         | 10.9 (2pcs) | 30.6(48V, 2pcs)                     | 15.4 (72V, 2pcs) | 22.4(72V)                         | 16.5 (2pcs)                                            | 55.8(16pcs battery)                                                | 10.1        | 57(16pcs battery)/   | 12.05       |
|                         |                                                                                                                                                                                                                                     |             | 22(72V,1pc)                         |                  | 26.5(96V),1pc                     |                                                        | 63.8(20pcs battery)                                                |             | 65(20pcs battery)    |             |
| Carton Size (L*W*H)(mm) | 485*380*355                                                                                                                                                                                                                         |             | 494*485*355(48V) / 510*295*455(72V) |                  | 510*295*455                       | 494*485*355                                            | 625*305*830                                                        | 510*295*455 | 625*305*830          | 510*295*455 |
| MANAGEMENT              |                                                                                                                                                                                                                                     |             |                                     |                  |                                   |                                                        |                                                                    |             |                      |             |
| Interface               | 1*USB,1*RS232,1*EPO                                                                                                                                                                                                                 |             |                                     |                  |                                   |                                                        |                                                                    |             |                      |             |

\*Product Specifications are Subject to Change Without Notice. ( Note:L for long back up time models )