# TP Low Frequency Three-phase Inverter (IGBT)
## 10KW/20KW/30KW/50KW/80KW/100KW/150KW/200KW

## MAIN FEATURES

- Pure sine wave 220VAC/380VAC
- Compatible work with gel battery
- Low frequency(Built in ring transformer)
- Support multiple output priority: SBU,SUB
- Communication interface:RS232/RS485/Dry contact
- EQ function to optimize battery performance and extend lifecycle

## ◼ Product Specifications

| Model | | TP-10K | TP-20K | TP-U-30K | TP-U-50K | TP-U-80K | TP-U-100K | TP-U-150K | TP-U-200K |
|---|---|---|---|---|---|---|---|---|---|
| Rated Power | | 10KW | 20KW | 30KW | 50KW | 80KW | 100KW | 150KW | 200KW |
| Working Methods And Principles | | PWM (pulse width modulation) based on DSP accurate control technology and double built-in MCUs Complete isolation of the outout power supply | | | | | | | |
| AC Input | Phase | Three phase N+G | | | | | | | |
| | Voltage | 220/380VAC±20% | | | | | | | |
| | Frequency | 50/60Hz±5% | | | | | | | |
| DC Input | DC Voltage | 192/220/240/384VDC | | | | 384VDC | | | |
| | Floating Battery | 13.6V of each battery*battery quantity [13.6V*16 batteries=217.6V] | | | | | | | |
| | Cut-off Voltage | 10.8V of each battery*battery quantity [10.8V*16 batteries=172.8V] | | | | | | | |
| AC Output | Phase | Three phase N+G | | | | | | | |
| | Voltage | 220/380VAC±1% (steady load) | | | | | | | |
| | Frequency | 50/60Hz±5%(mains);50Hz±0.5% (battery) | | | | | | | |
| | Efficiency | ≥90%(Load100%) | | | | | | | |
| | Output Wave Form | Sine Wave | | | | | | | |
| | Total Harmonic Distortion | Linear load<3%,Non-linear loads<5% | | | | | | | |
| | Dynamic Load Voltage | <±5% (From 0~100%) | | | | | | | |
| | Instant Recovery Time | <100ms | | | | | | | |
| | Battery And Mains Switching | 3~5s | | | <4ms | | | | |
| | Unbalanced Voltage | <±3%(Unbalanced battery voltage)<±1%(Unbalanced load voltage) | | | | | | | |
| | Overload | 120%,20s;>150%,100ms | | | 125%,20s;>150%,1s | | | | |
| System Specifications | Working Efficiency | ≥90%(load:100%) | | | | | | | |
| | Computer Communication | RS232/485(SNMP Remote Monitoring Network Adapters) | | | | | | | |
| | Operating Temperature | -10~40°C | | | | | | | |
| | Relative Humidity(no condensation) | 0~90%(no condensation) | | | | | | | |
| | Noise From The Machine 1M | 40~50dB | | | 50~60dB | | | | |
| Structure | Dimensions:D*W*H(mm) | 580*750*920 | | | 608*728*1475 | 1138*795*1725 | | 1138*945*1725 | |
| | Weight (KG) | 180 | 220 | 261 | 470 | 680 | 688 | 954 | 1120 |