

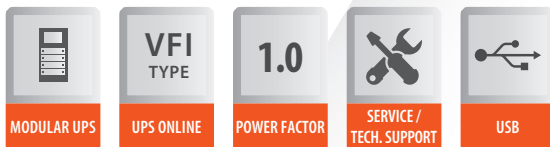
# MTI1000 MODULAR UPS

## 600kVA

High Efficiency, Up to 96%

Support Lithium Battery

Fully Digital Control



## GENERAL SPECIFICATIONS

### LOW-CARBON & GREEN

This series 3 level inverter, fully digital control. Achieving the input power factor  $\geq 0.99$ , input THDi  $\leq 3\%$ , leading overall efficiency up to 96%

### HIGH POWER DENSITY

- The 600kW system can reach to 3MW.
- Power module: the single module power density 100kW/4U.
- Meet the large data center application site.

### LCD SCREEN WITH IOT & INTELLIGENT MONITORING

- 10-inch color touch screen with new display style.
- Support IOT and intelligent data monitoring.
- Provide users intuitive display while reducing human fault.
- Record maximum 2000 history logs

### ALL-ROUND INTELLIGENT DETECTION

- Monitoring the operating status of critical component, able to set early warning.
- Record the rectifier/inverter abnormal info of the power module and catch the waveform which can be exported to computer by USB.

### WIDE RANGE OF THE BATTERY NUMBER

- Support 30-48 pcs batteries (settable).
- Shared battery pack in parallel UPS system.
- Support Lithium battery.
- Battery N line free patent.
- Saving power distribution switch and instruction cost. Therefore, it becomes more flexible for customer.

### HIGH SYSTEM CAPACITY UP TO 3MW

#### Power Module

There are 6 slots for power modules, easily achieve module redundancy.

#### UPS Parallel

- 6-slot UPS can reach up to 3MW
- 5 units of 6-slot UPS can be paralleled

#### Standard Cabinet

There are 5/6/8 slots UPS standard cabinets.

## TECHNICAL SPECIFICATIONS

| MODEL                   |              | MTI10600/100  |
|-------------------------|--------------|---|
| System capacity         |              | 600kVA  |
| Power module capacity   |              | TPM100X1 (100kVA/100kW)   |
| INPUT                   |              |   |
| Dual input              |              | Optional  |
| Phase                   |              | 3Phase+Neutral+Ground, 380/400/415VAC (line-line)   |
| Rate frequency          |              | 50Hz/60Hz   |
| Voltage range           |              | 323~478Vac (line-line), full load; 323V~191Vac (line-line), load decrease linearly from 100%~40%; 191V~138V (line-line), load decrease linearly from 45%~35% according to the min phase voltage |
| Frequency range         |              | 40Hz/70Hz   |
| Power factor            |              | > 0.99  |
| THDi                    |              | < 3% @ 100% linear load   |
| BYPASS                  |              |   |
| Rate voltage            |              | 380/400/415VAC (Line-Line)  |
| Rated frequency         |              | 50Hz/60Hz   |
| Input voltage range     |              | Settable, default -20% ~ +15%<br>Up limit: +10%, +15%, +20%, +25%<br>Down limit: -10%, -15%, -20%, -30%, -40%   |
| By-pass frequency range |              | Selectable, $\pm 1$ Hz, $\pm 3$ Hz, $\pm 5$ Hz  |
| Bypass overload         |              | 110% long term operation; 110% ~ 125% for 5 mins; 125% ~ 150% for 1 min;<br>150% ~ 400% for 1 s; >400% less than 200ms  |
| OUTPUT                  |              |   |
| Rate voltage            |              | 380/400/415VAC (line-line)  |
| Rated frequency         |              | 50Hz/60Hz   |
| Output power factor     |              | 1.0   |
| Voltage regulation      |              | $\pm 1$ %   |
| Output THDu             |              | <1% Linear load; <5%, Non-linear load   |
| Inverter overload       |              | <110%, 1hour; 110%~125%, 10mins;<br>125%~150%, 1min; >150%, 200ms   |
| Frequency precision     |              | $\pm 0.1$ %   |
| BATTERY                 |              |   |
| Voltage                 |              | $\pm 180 \sim 288$ VDC<br>30~32pcs derate to 0.7;<br>34~36pcs derate to 0.8;<br>38pcs derate to 0.9;<br>40~48pcs  |
| Voltage precision       |              | $\pm 1$ %   |
| Charge power            |              | Up to 15% * Output active power   |
| SYSTEM                  |              |   |
| Efficiency              | AC Mode      | >96%  |
|                         | Battery Mode | >95%  |
| Display                 |              | LED+ Color touch LCD screen   |
| Interface               |              | RS485, USB, CAN, Programmable Dry Contact, 2 Intelligent slots  |
| Option                  |              | SNMP Card, AS400 Card, Parallel kit, dual input kit, SPD, LBS, GSM  |
| Temperature             |              | Operation: 0~40°C Storage: -40~70°C   |
| Relative humidity       |              | 0~95% Non-condensing  |
| Noise(1 meter)          |              | 75dB @ 100% load, 70dB @ 45% load   |
| Altitude                |              | <1000m. Within 1000~2000m, 1% power derating for every 100m rise  |
| PHYSICAL                |              |   |
| Dimension (WxDxH)       | Cabinet      | 1000 x 1100 x 2000  |
|                         | Power module | 440 x 794.5 x 174   |
| Net weight (kg)         | Cabinet      | 500   |
|                         | Power module | 50  |