MTP Series
1-10kVA 1-phase/1-phase
Double Conversion Online (VFI)

Product
MTP Series is a range of ON-LINE double Conversion technology UPS with 1.0 output power factor and “zero” transfer time, the load is always powered by the inverter, which supplies true sinusoidal voltage that is free from electrical interference.

High Reliability
MTP Series offers high quality power supply with the greatest degree of availability and reliability

MTP Series is compact and very convenient for users, especially for basic equipment such as PC, Workstation, Network centers, Communication equipments, and other critical systems.

Extended Back Up Time
Battery expansion is possible to increase the back-up time of the UPS. For longer back-up time, it is available MTP “L” version without internal battery but with powerful battery charger

Automatic Restart
The UPS is programmed to restart automatically when the mains returns after switching off due to end of back-up time following prolonged power failure.

Communications
MTP Series comes with an expansion slot for optional communication board which make it compatible with the main communication option: SNMP and Dry contact card

DSP Technology
The advance DSP digital control technology enable UPS more stable performance.

Active Input Power Factor Correction (PFC)
Digitalized control of the PFC enable the UPS to keep input power factor above 0.99 to prevent possible electric grid pollution and meanwhile mostly save the cost.

Zero Power Switch Delay
When the utility power fails, UPS will automatically switch from AC mode to battery mode with no delay, which ensures stable power supply of operating system.

Environment Friendly
This UPS is eco-designed and manufactured to meet the most local pollution control requirement of Electronic Products, which mean it will cause no harm to environment and human beings in normal usage.

Wide Range of Input Voltage and Frequency
We intentionally widen the range of input factors to make sure the UPS can apply to various environment, which will effectively sustain the battery charging even in unstable power environment so that the service life of the UPS could be obviously prolonged.

Features
- True double-conversion
- Microprocessor control optimized reliability
- Input power factor correction
- Output power factor 1.0
- Wide input voltage(110V~300)
- Converter mode available
- Generator compatible
- Smart SNMP works well either USB or RS-232
<table>
<thead>
<tr>
<th>Model</th>
<th>MTP 1101S</th>
<th>MTP 1101L</th>
<th>MTP 1102S</th>
<th>MTP 1102L</th>
<th>MTP 1103S</th>
<th>MTP 1103L</th>
<th>MTP 1106S</th>
<th>MTP 1106L</th>
<th>MTP 1110S</th>
<th>MTP 1110L</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rated Capacity</td>
<td>1kVA/1kW</td>
<td>2kVA/2kW</td>
<td>3kVA/3kW</td>
<td>6kVA/6kW</td>
<td>10kVA/10kW</td>
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</tbody>
</table>

**Input**

- **Input Formats**: L + N + PE
- **Nominal Voltage**: 208/220/230/240VAC
- **Input Voltage Range**: 110-300VAC
- **Frequency Range**: 44-56Hz or 54-66Hz
- **Power Factor**: ≥0.99
- **Harmonic Distortion**: ≤3% THD (Linear Load); ≤5% THD (Non-Linear Load)

**Output**

- **Output Formats**: L + N + PE
- **Output Voltage**: 208/220/230/240VAC
- **Voltage Regulation**: 1%
- **Frequency Regulation**: Line Mode: Synchronized range, Battery Mode: 50/60 Hz ±1%
- **Harmonic Distortion**: ≤2% THD (Linear Load); ≤5% THD (Non-Linear Load)
- **Power Factor**: 1.0
- **Transfer Time**: 0s

**Overload Capacity**

- **AC Mode**:
  - 30min@102%–110% Load
  - 10min@110%–130% Load
  - 30s@130%–150% Load
  - 200ms@150% Load
- **Battery Mode**:
  - 30min@102%–105% Load
  - 10min@105%–125% Load
  - 30s@125%–150% Load
  - 500ms@150% Load

**Efficiency**

- **Battery 93%**
- **AC Mode 94%**
- **Battery Mode 95.50%**

**Battery Quantity**

- 7Ah x 2(3)
- 7Ah x 4(6)
- 7Ah x 6(8)
- 7Ah x 16(20)

**Typical Recharge Time**

- Depending on user needs

**Charging Current**

- 1A to 4A (default 1A)
- 1A to 12A (default 1A)

**Environment**

- **Ambient Temperature**: 0-40 °C
- **Humidity**: 20%-95% (No condensing)
- **Storage Temperature**: -15-60 °C (Battery: 0-40 °C)
- **Altitude**: The altitude should not exceed 1,000m, and the height above 1,000m should be reduced to a maximum of 4,000m. Refer to IEC62040

**Indicator**

- **LCD**: Load level, Battery level, AC mode, Battery mode, By-pass mode,

**Physical**

- **Dimension (mm)**:
  - 350x145x230
  - 410x190x325
  - 500x240x616
  - 500x240x460
  - 500x248x616
  - 500x240x460
- **Weight (kg)**:
  - 18.6
  - 9.0
  - 19
  - 10
  - 25
  - 11
  - 57
  - 18
  - 67.5
  - 20

**Management Interface**

- RS232, Intelegent Slot