

T-4101 (TRANSFORMER BASED) SINGLE PHASE - 1 to 6 kVA



BUILT-IN OUTPUT ISOLATION TRANSFORMER

FEATURES

- **Wide Input Voltage Range**
Single Phase 160Vac to 280Vac.
- **High Efficiency**
98% under ECO Mode.
- **Intelligent Charging Design**
Battery low/over charged sensor to protect the charger.
- **Output Voltage Regulation**
220Vac \pm 1% (Static)
220Vac \pm 2% (50% to 0% Sudden Change).
- **High Performance**
Advanced SCR rectifier and IGBT inverter technology.

ONLINE DOUBLE CONVERSION PURE SINE WAVE LOW FREQUENCY WITH BUILT-IN BATTERIES

T-4101 SINGLE PHASE

The i-power T-4101 series is a true online double-conversion UPS that can provide your critical equipment with reliable and stable sine wave power. It features significant advantages, including an output power factor of 0.8 and up to 98% AC-AC efficiency for greater energy savings.

- GUARANTEEING A STABLE AC MAINS VOLTAGE

It is a versatile, high quality, and cost-competitive UPS developed to handle a wide voltage range and inconsistent power conditions. The T-4101 series provides a safe power supply guaranteed for mission-critical applications such as computer equipment, telecommunication devices, precision instrument, network termination equipment, and more.

- High Overload Handling Ability

Surge current protection technology to manage sudden impact of 0% to 100% load immediately without transfer to bypass.

- Ventilation Design

Front to rear ventilation design to reduce the MTTR rate of the UPS.

- Tested and Verified

All devices are fully tested and verified for maximum performance.

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TECHNICAL SPECIFICATION

| Model | OL1001T80607S | OL1002T80607S | OL1003T80807S | OL1006T81607S |
|----------------------------|--|---------------|---------------|---------------|
| Capacity | 1KVA / 0.8KW | 2KVA / 1.6KW | 3KVA / 2.4KW | 6KVA / 4.8KW |
| UPS Structure | Online Double Conversion | | | |
| Topology | Low Frequency with Output Isolation Transformer | | | |
| Overall Efficiency (AC-AC) | >85% | | | |
| Noise (In 2 metres) | <50dB | | | |
| Working Temperature | -10°C to 40°C | | | |
| Storage Temperature | -25°C to 60°C (Without Batteries) | | | |
| Humidity | <95%Non-Condensing | | | |
| Safety Standard | IEC62040 | | | |
| Parallel Redundancy | Available | | | |
| Protections | Overload, Short-Circuit, Over Temp, Utility Power Voltage High/Low, BAT Voltage High/Low | | | |
| DC Start | Available | | | |
| Generator Compatibility | Available | | | |
| Display | LCD | | | |
| Mute | Auto | | | |
| IP Rating | IP20 | | | |
| Cooling System | Intelligent Speed Control Cooling Fan | | | |
| Elevation | <1000M, Without Derating | | | |

RECTIFIER SPECIFICATION

| | |
|-----------------------|---------------------------------|
| Input Voltage | 200/220/230/240Vac Single Phase |
| Input Voltage Range | 160Vac to 280Vac |
| Input Frequency Range | 50Hz±5% |
| Soft-Start | >20 Seconds |

OUTPUT SPECIFICATION

| | |
|---------------------------|--|
| Output Voltage | 200/220/230/240Vac |
| Output Power Factor | 0.8 |
| Output Voltage Regulation | 220Vac±1% (Static Load), 220Vac±2% (50% to 0% Sudden Change) |
| Output Frequency | 50Hz±0.1% (BAT Mode) |
| Distortion | <1% (Linear Full Load), <3% (Non-Linear Full Load) |
| Frequency Tracking Range | 46Hz to 54Hz |
| Output Waveform | Pure Sine Wave |
| Overload | >125%: More than 1 Min |
| | >150%: More than 300ms |
| Noise Suppression | EMI/RFI Wave Filter |
| Crest Ratio | 3:1 |
| Short-Circuit | Circuit Auto Protection Output Voltage/Current |
| Output Abnormal | INV. Output Auto-Locked Protection |

BYPASS SPECIFICATION

| | |
|-----------------------------|-----------------------------|
| Static Bypass Transfer Time | 0ms |
| Static Bypass Range | 220Vac (-15% to +15%) |
| Frequency Range | ±1Hz, ±2Hz, ±3Hz Adjustable |
| Bypass INV Transfer Time | 2ms |
| Frequency Tracking Speed | 0.5Hz to 2Hz/s |

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ALARM SPECIFICATION

| | |
|-------|---|
| Alarm | Utility Power Fault, BAT Voltage Low, Overload, UPS Fault |
| Mute | Auto |

BATTERY SPECIFICATION

| | | | | |
|------------------|-----------------------------------|---------------|---------------|---------------|
| Model | OL1001T80607S | OL1002T80607S | OL1003T80807S | OL1006T81607S |
| Capacity | 1KVA / 0.8KW | 2KVA / 1.6KW | 3KVA / 2.4KW | 6KVA / 4.8KW |
| Type | Sealed Lead Acid Maintenance Free | | | |
| VDC - Ah Rating | 72Vdc - 7Ah | 72Vdc - 7Ah | 96Vdc - 7Ah | 192Vdc - 7Ah |
| Charging Current | 1A | 1A | 1A | 1A |
| BAT Low | Shutdown Protection | | | |

COMMUNICATION SPECIFICATION

| | |
|-----------------------------|---|
| Standard Communication Port | Rs232 |
| Optional | SNMP/RS485/Dry Contact |
| Remote Software | Multi-functional Monitoring System, Online and BAT Mode Status, BAT Fault, Remote Control |

PHYSICAL CHARACTERISTICS

| | | | | |
|-----------------------|-------------|------|----|-------------|
| Dimensions (WxDxH) mm | 220x510x395 | | | 220x610x635 |
| Net Weight (Kg) | 37.5 | 38.5 | 49 | 84 |