

T-4111 (TRANSFORMER BASED) SINGLE PHASE - (RACK MOUNTABLE) 1 to 10 kVA



BUILT-IN OUTPUT ISOLATION TRANSFORMER

FEATURES

- **Wide Input Voltage Range**
160-280Vac
- **High Efficiency**
85% for low running costs.
- **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 WITHOUT BATTERIES

T-4111 SINGLE PHASE

The i-power T-4111 series is a true online double-conversion rack-mount 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 85% 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-4111 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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SINGLE PHASE - 1 to 10 kVA

TECHNICAL SPECIFICATION

| Model | OL1001R80600S | OL1002R80600S | OL1003R80800S | OL1006R81600S OL1006R80800S | OL1008R81600S | OL1010R81600S |
|----------------------------|---|---------------|---------------|--------------------------------|---------------|---------------|
| Capacity | 1KVA / 0.8KW | 2KVA / 1.6KW | 3KVA / 2.4KW | 6KVA / 4.8KW | 8KVA / 6.4KW | 10KVA / 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 Temperature, Utility Power Voltage High/Low, BAT Voltage High/Low | | | | | |
| DC Start | Available | | | | | |
| Generator Compatibility | Available | | | | | |
| Display | LCD | | | | | |
| IP Rating | IP20 | | | | | |
| Cooling System | Intelligent Speed Control Cooling Fan | | | | | |
| Elevation | <1000, 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 | >125%: More than 10 Mins; >150%: More than 1 Min |
| Noise Suppression | EMI/RFI Wave Filter | |
| Crest Ratio | 3:1 | |
| Short-Circuit | Circuit Auto Protection, Output Voltage/Current 0 | |
| 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 | |
| Manual Maintenance Bypass | None | Available |

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ALARM SPECIFICATION

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

BATTERY SPECIFICATION

| Model | OL1001R80600S | OL1002R80600S | OL1003R80800S | OL1006R81600S OL1006R80800S | OL1008R81600S | OL1010R81600S |
|------------------|-----------------------------------|---------------|---------------|--------------------------------|---------------|---------------|
| Capacity | 1KVA / 0.8KW | 2KVA / 1.6KW | 3KVA / 2.4KW | 6KVA / 4.8KW | 8KVA / 6.4KW | 10KVA / 8KW |
| Type | Sealed Lead Acid Maintenance Free | | | | | |
| VDC | 72Vdc | 72Vdc | 96Vdc | 192Vdc / 96Vdc | 192Vdc | 192Vdc |
| Charging Current | 5A - Standard, 10A - Optional | | | | | |
| BAT Low | Shutdown Protection | | | | | |

COMMUNICATION SPECIFICATION

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