

# T-4103 (TRANSFORMER BASED) THREE PHASE - **160 to 600 kVA**



## **BUILT-IN OUTPUT ISOLATION TRANSFORMER**

### FEATURES

- **Wide Input Voltage Range**  
298-498Vac.
- **Robust ECO Mode**  
Up to 98% efficiency with higher system reliability.
- **Parallel Redundancy**  
Up to eight units can be paralleled for redundancy or expansion.
- **Self-diagnosis**  
Self-diagnosis and aging detection to minimize downtime risk.
- **High Performance**  
Advanced rectifier and IGBT inverter technology.

## **ONLINE DOUBLE CONVERSION PURE SINE WAVE LOW FREQUENCY WITHOUT BATTERIES**

# **T-4103 THREE PHASE**

The i-power T-4103 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 0.9 and up to 94% AC-AC efficiency for greater energy savings.

### **- GUARANTEEING A STABLE AC MAINS VOLTAGE**

The i-power T-4103 series offers the maximum available power, energy efficiency, and power performance for large data centers, telecommunication center, production line and related devices, requiring high power ratings and highly reliable power protection. With Multiple Digital Control Modules, such as DSP, MCU, and CPLD, T-4103 can be non-prioritized paralleled up to 8 units to lower operating costs without compromising reliability, performance, and availability.

- **Greater Energy Savings**  
AC-AC efficiency up to 94% for greater energy savings.
- **High Overload Handling Ability**  
High Load Compatibility and short-circuit protection.
- **Tested and Verified**  
All devices are fully tested and verified for maximum performance.

# T-4103 (TRANSFORMER BASED)

## THREE PHASE - 160 to 600 kVA

### TECHNICAL SPECIFICATION

Model	OL3160T93200S	OL3200T93200S	OL3250T93200S	OL3300T93200S	OL3400T93200S	OL3500T93200S	OL3600T93200S
Capacity	160KVA/144KW	200KVA/180KW	250KVA/225KW	300KVA/270KW	400KVA/360KW	500KVA/450KW	600KVA/540KW
UPS Structure	Online Double Conversion						
Topology	Low Frequency with Output Isolation Transformer						
Overall Efficiency	94% (With Optional Accessories)						
ECO	98%						
Noise (In 2 metres)	67dB						
Working Temperature	0°C to 40°C						
Storage Temperature	15°C to 50°C (Without Batteries)						
Humidity	<95%Non-Condensing						
Standards	IEC62040-2, IEC62040-3, IEC60950-1, IEC62040-1-1						
Parallel Redundancy	Parallel Redundancy Upto 8 Units						
Protections	Overload, Short-Circuit, Over Temperature, 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	<1500M, Without Derating						

### RECTIFIER SPECIFICATION

Input Voltage	380/400/415Vac+N+W (3 Phase+PE)
Input Voltage Range	298Vac to 498Vac
Input Frequency Range	50/60Hz±10%
Soft-Start	5-600 Seconds, Adjustable
Input PF	0.95 (With Optional Input Wave Filter)
THDI	<5% (With Optional Accessories)

### OUTPUT SPECIFICATION

Output Voltage	Line Voltage: 380x(1±1%) AC or Phase Voltage: 220x (1±1%) AC
Output Power Factor	0.9
Output Volt. Regulation	380Vac±1% (Static Load): 380Vac±2% (50-0% Sudden Change): 380Vac±3% (100-0% Sudden Change)
Volt. Dynamic Response	±5% (0 to 100% Sudden Change)
Volt. Dynamic Resp Time	<5ms
Synchronization Range	±5%
Output Frequency	±0.02% (BAT Mode)
THD	<1% (Linear Full Load), <3% (Non-Linear Full Load)
3 Phase Unbalanced	Allow 3 Phase 100% Unbalanced
Output Volt. Unbalanced	≤1° (Balanced Load) ≤2° (50% Balanced Load)
Input/Output Phase Shift	≤1° (Balanced Load) ≤2° (50% Balanced Load)
Freq Tracking Range	45Hz to 65Hz
Output Waveform	Pure Sine Wave
Overload	With output PF 0.9, 105%: Long time Operation, 110%: 1 Hour, 125%: 10 Mins, 150%: 1 Min
Crest Ratio	3:1
Short-Circuit	Circuit Auto-Protection, Bypass Switch Tripping
Output Abnormal	INV. Output Auto-Locked Protection

### BYPASS SPECIFICATION

Static Bypass Transfer Time	0ms
Static Bypass Range	380/400/415Vac (±10%,±15%,±20% Selectable) 3 Phase+N (3 Phase+N+PE)
Frequency Range	50/60Hz±10%
Bypass INV Transfer Time	2ms
Frequency Tracking Speed	200%: 5 Mins; 1000%: 10 Seconds
Manual Maintenance Bypass	Available

# T-4103 (TRANSFORMER BASED)

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### BATTERY SPECIFICATION

Model	OL3160T93200S	OL3200T93200S	OL3250T93200S	OL3300T93200S	OL3400T93200S	OL3500T93200S	OL3600T93200S
Capacity	160KVA/144KW	200KVA/180KW	250KVA/225KW	300KVA/270KW	400KVA/360KW	500KVA/450KW	600KVA/540KW
Type	Sealed Lead Acid Maintenance Free						
VDC	384VDC						
Float Charge Voltage	Equalized Charge, Float Charge, Intelligent Battery Management						
Charging Current	10-20A						
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

### PHYSICAL CHARACTERISTICS

Dimensions (WxDxH)	855x1900x1245	855x1900x1640	855x1900x2265	855x1900x2615	955x1900x2865
Net Weight (Kg)	1075	1580	2105	2850	3130

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