T-4103 (TRANSFORMER BASED) THREE PHASE - 60 to 120 kVA





BUILT-IN OUTPUT ISOLATION TRANSFORMER

FEATURES

- Wide Input Voltage Range Reduce the chance of battery drainage and extend battery life.
- 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 SCR rectifier and IGBT technology.

ONLINE DOUBLE CONVERSION PURE SINE WAVE LOW FREQUENCY WITHOUT BATTERIES

The i-power T-4103 series is a true online double-conversion UPS that can provide your critcal equipment with reliable and stable power. It features significant advantages, including an output power factor of 0.9 and up to 90% 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 centres, telecommuncation center, production line and realated devices, requiring high power ratings and highly reliable power protection. **T-4103** THREE PHASE

Greater Energy Savings

AC-AC efficiency up to 90% 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.

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TECHNICAL SPECIFICATION

Model	OL3060T93200S	OL3080T93200S	OL3100T93200S	OL3120T93200S
Capacity	60KVA / 54KW	80KVA / 72KW	100KVA / 90KW	120KVA / 108KW
UPS Structure	Online Double Conversion			
Тороlоду		Low Frequency with Out	tput Isolation Transforme	•
Overall Efficiency (AC-AC)		>90)%	
Noise (In 2 metres)		<50dB t	o 60dB	
Working Temperature	-10°C to 40°C			
Storage Temperature	-25°C to 60°C (Without Batteries)			
Humidity	<95%Non-Condensing			
National Standard	EN50091-1/IEC950			
International Standard	EN 50091-1/2, EN62040-1, EN62040-2			
Parallel Redundancy	Available upto 8 units			
Protections	Overload, Short-Circuit, Over Temperature, Utility Power Voltage High/Low, BAT Voltage High/Low			
ECO	Available			
EPO Function	Available			
DC Start	Available			
Generator Compatibility	Available			
Display	LCD/LED			
Mute	Auto			
IP Rating	IP20			
Cooling System	Intelligent Speed Control Cooling Fan			
Elevation	<1500M, Without Derating			

RECTIFIER SPECIFICATION

Input Voltage	380Vac+N+W (3 Phase + PE)			
Input Voltage Range	285Vac to 475Vac			
Input Frequency Range	45Hz to 65Hz			
Input Power Factor	0.95 (with input filter)			
THDI	<5% (with optional accessories)			
Dual Input Availability	Available (optional accessories)			
Input Mis Phase Protection	Misphase Alarm, UPS will not be started			
Input Phase lost Protection	Phase Lost Alarm, UPS work on Bypass mode			
Soft-Start	>20 Seconds			
Input Current	100A	125A	160A	192A

BYPASS SPECIFICATION

Static Bypass Transfer Time	0ms
Static Bypass Input Range	380Vac (-15 to+15%)
Frequency Range	50Hz to 60Hz \pm 1Hz, \pm 2Hz, \pm 3Hz Adjustable
Bypass - INV Transfer Time	2ms
Frequency Tracking Speed	0.5Hz to 2Hz/s
Manual Maintenance Bypass	Available

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OUTPUT SPECIFICATION

Output Voltage	Line Voltage: 380×(1±1%) AC or Phase Voltage: 220×(1±1%) AC	
Output Power Factor	0.8/0.9 (No lag)	
Output Voltage Regulation	380Vac±1%(Static Load); 380Vac±2%(50-0% Sudden Change); 380Vac±3%(100-0% Sudden Change)	
Output Frequency	$\pm 8\%$ at 50Hz: Online Mode tracking input and bypass freq.; $\pm 0.1\%$: when input or bypass frequency is more than $\pm 8\%$ or under BAT Mode	
THDI	<1% (Linear Full Load), <3% (Non-Linear Full Load)	
3 Phase Unbalanced	Allow 3 Phase 100% Unbalanced	
Output Volt. Unbalanced	\leq 1°(Balanced Load); \leq 2°(50% Balanced Load)	
Input/Output Phase Swift	≤1°(Balanced Load); ≤2°(50% Balanced Load)	
Frequency Tracking Range	45Hz to 65Hz	
Output Waveform	Pure Sine Wave	
Overload	>125%: More than 10 mins; > 150%: More than 60s transfer to bypass	
Crest Ratio	3:1	
Short-Circuit	Circuit Auto-Protection, Bypass Switch Tripping	
Output Abnormal	INV. Output Auto-Locked Protection	

BATTERY SPECIFICATION

Model	OH3060T93200S	OH3080T93200S	OH3100T93200S	OH3120T93200S
Capacity	60KVA / 54KW	80KVA / 72KW	100KVA / 90KW	120KVA / 108KW
Charging Methods	DSP Controlled Charger: Equalized/Pulse Charge, Float Charge, Intelligent Battery Management			
Туре	Sealed Lead Acid Maintenance Free			
VDC	336VDC to 384VDC			
Float Charge Voltage	438Vdc			
Charging Current	5-10A			
Abnormal Protections	BAT Over-Charged, Emergency charger shutdown protection or UPS 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 (W×H×D) mm	605×1350×800		800×1600×800	
Net Weight (Kg)	450	550	630	750

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