



Virtual Sense POWER

tel: +27 21 858 1202
e-mail: sales@virtualseNSE.co.za
web: www.virtualseNSE.co.za

T5 SERIES (10kVA-400kVA)

ST5 (10kVA-400kVA) features true on line double conversion and zero sec. transfer time. Intellectual blocking design, adopts advanced power apparatus IGBT, predominantly a SPWM inverter. It also features MMBM intellectual multi-modes battery management and intellectual monitoring and management software. The parallel capacity can extend the on line parallel redundancy or N+1 for upgradeability.

TRUE ONLINE DOUBLE CONVERSION

Output is isolated by a transformer, with IGBT power units used, making sure a safe working environment for all equipment. Isolation between N and G, and anti-impact from all kinds of surges and disturbances in power. 3 output phases can be adjusted independently, thus allowing 3 phase 100% unbalanced load, flexible load capacity and high system reliability. Especially fit for computer rooms, communication etc.

RELIABLE EMC FEATURES

All products have passed the EMC tests. Testing includes conducting disturbance, radiant disturbance, conducting anti-disturbance, radiant anti-disturbance, power fault, mass pulse, surge, ESD etc. Excellent EMC features allow the ST5 series to be capable of high frequency communication and video & audio broadcasting.

COLD START FUNCTION

Due to a special current limiting circuit on the UPS, the user can start the UPS directly from the battery bank connected for emergency situations in a no mains situation. The UPS can run on cold start on full load.

FULL FUNCTION LCD DISPLAY

All ST5 series products above 20KVA are equipped with large LCD Displays. They also feature real time surveillance on UPS running parameters and status, FE and daily maintenance.

The ST5 features an Intelligent battery management system while batteries are being charged and discharged for longer operational life and higher reliability of the batteries.

FLEXIBLE NET PROJECT MONITORING (OPTIONAL)

Independent digital remote control, supported by RS485, with a range of 1000 meters or SNMP network adapter

ADVANCED NON-MASTER-SLAVE SELF-ADAPTIVE CONTROL TECHNOLOGY (PARALLEL TYPE)

ST5 series parallel UPS features a powerful parallel capacity. There is no need to set the parallel units. The User can extend the parallel capacity as needed for N+1 parallel redundancy. This increases the reliability of the power system.

STAR
T5 SERIES
10kVA -400kVA





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Model	ST5 010	ST5 020	ST5 030	ST5 040	ST5 050	ST5 060	ST5 080	ST5 100	ST5 120	ST5 160	ST5 200	ST5 300	ST5 400
Input													
Voltage *	380/400VAC ± 25%												
Rectifier Frequency Range	40Hz~65Hz												
SYNC Frequency Tracking Range	50Hz ± 5% (± 10% option)												
Phase	3φ4W+PE												
Battery	12Vdc × 29 = 348Vdc / 12VDC × 30 = 360Vdc												
Charge Current (Max)	5~40A (adjustable)										5~80A (adjustable)		
Charge DC Voltage Regulation	395V ± 5Vdc												
DC Ripple Voltage	<1%												
Output													
Capacity (kVA)	10	20	30	40	50	60	80	100	120	160	200	300	400
Power Factor	0.8												
Phase	3φ4W+PE												
Voltage *	L-N: 220VAC ±1%, L-L: 380VAC ± 1%												
Frequency	Utility normal, follow in phase automatically, Utility fault, output frequency at 50Hz ± 0.2%												
Parallel mode (optional)	None-principle-subordinate Adaptive Control Technique, User can extend parallel capacity as needed for N+1 parallel redundancy												
3 phase 100% load unbalance voltage stability	≤2%, allows 100% unbalance												
Waveform	Sinewave THD ≤ 3% (linear load)												
Crest Factor	3:1												
Efficiency	90%												
Static Bypass Transfer Time	0ms												
Overload Capacity	110% load for 30 min, 125% load for 10 min, 150% load for 1min												
Regulation no load to full load steady state	±2%												
Other													
Panel Display	LCD Display indicates 3 phase input voltage, input frequency, 3 phase output voltage, load, battery voltage, battery charging and discharging etc. LED indicates running status												
Battery Self-Testing	Automatically sounds an alarm and estimates battery status in battery abnormal status												
Lightning Protection	Complies with IEC 1312												
Operating Temp., Humidity	0°C-40°C, 95% (non-condensing)												
Dimension (W x D x H) (mm)	500 x 800 x 1180			800 x 800 x 1600			1000 x 800 x 1800			1800 x 1000 x 2000		2200 x 1000 x 2000	
Weight (kg)	185	205	235	430	450	470	680	705	745	805	1400	2350	2380

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