

## AEC T4T with Isolation Transformer (10kVA-15kVA)

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### **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 multimodes 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

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### **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

*Full specifications can be found on the next page*

SPECIFICATIONS	ST5	ST5	ST5	ST5	ST5	ST5	ST5	ST5	ST5	ST5	ST5	ST5	ST5	
	3310	3320	3330	3340	3350	3360	3380	33100	33120	33160	33200	33300	33400	
<b>INPUT</b>														
Voltage*	380V AC $\pm$ 20% ( $\pm$ 25% option)													
Rectifier Frequency Range	40Hz~65Hz													
SYNC Frequency Tracking Range	50Hz $\pm$ 5% ( $\pm$ 10% option)													
Phase	3 $\phi$ 4W+PE													
Battery	12Vdc $\times$ 29 = 348Vdc													
Charge Current (Max)	5~40A (adjustable)										5~80A (adjustable)			
Charge DC Voltage Regulation	395V $\pm$ 5Vdc													
DC Ripple Voltage	<1%													
<b>OUTPUT</b>														
Capacity	10	20	30	40	50	60	80	100	120	160	200	300	400	
Phase	3 $\phi$ 4W+P													
Voltage*	L-N: 220/230/240VAC $\pm$ 1%, L-L: 380VAC $\pm$ 1%													
Frequency	Utility normal, follow in phase automatically, Utility fault, output frequency at 50Hz $\pm$ 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	$\leq$ 2%, allows 100% unbalance													
Waveform	Sinewave THD $\leq$ 3% (linear load); <5% (non-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	$\pm$ 2%													
<b>OTHER</b>														
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						1200 x 800 x 1600				2200 x 800 x 2000			
Weight (kg)	236	296	300	355	360	435	685	785	810	995	1400	1800	2000	

\* 550V input and output systems available on request

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