

MODEL	ST060T	ST080T	ST100T	ST125T	ST160T	ST200T
Nominal Power	60 kVA / 54 kW	80 kVA / 72 kW	100 kVA / 90 kW	125 kVA / 112.5 kW	160 kVA / 160 kW	200 kVA / 200 kW
MAIN INPUT						
Grid system	3F+N+PE					
Rated voltage / Frequency	380/400/415 VAC, 50/60 Hz					
Voltage range	320~480 VAC full load 240~480 VAC at 50% load					
Frequency range	40~72 Hz					
Power factor	0.99					
Current THDi	≤2,5%					
BYPASS INPUT						
Grid system	3F+N+PE					
Rated voltage / Frequency	380/400/415 VAC, 50/60 Hz					
Voltage range	Selectable, 180 ÷ 264V					
Frequency range	Selectable, ±5 Hz					
Bypass overload	110%, long term operation 110%<load<133%, 60 minutes 133%<load<150%, 10 minutes 150%<load<200%, 3 seconds load>200%, 2 seconds				110%, long term operation 110%<load<125%, 60 minutes 125%<load<150%, 10 minutes load>150%, 1 minute	
OUTPUT						
Rated voltage / Frequency	380/400/415 VAC, 50/60 Hz					
Power factor	0.9			1		
Sinewave	Pure sine wave					
Voltage THDv	<1% (from 0% to 100% linear load); <3% (non-linear load according to IEC/EN62040-3)	<1% (linear load); <3.5% (non-linear load)	<1% (linear load); <3% (non-linear load)	<0.5% (linear load); <3% (non-linear load)		
Voltage precision	±0,5%					
Transient response	±3% for resistive load					
Transient recovery	20 ms					
Inverter overload	110%, 10 minutes 133%, 1 minute 150%, 5 seconds				110%, 60 minutes 125%, 10 minutes 150%, 1 minute	
Frequency regulation	50/60 Hz ±0.01%					
Synchronized range	±5% (selectable 0,5 – 10%)					
Synchronized slew rate	1 Hz/sec (selectable 0,5- 2 Hz/sec)					
Crest Factor	3:1					
BATTERIES						
Battery type	VRLA AGM / GEL; Ni-Cd; WET TYPE					
Number of batteries in series	40					
Nominal voltage	±240 VDC					
Batteries arrangement	External					
SYSTEM						
Efficiency - Normal operation	95,4%	95,2%	95%	95,6%	95,9%	95,6%
Efficiency - Eco Mode operation	99.1%			99.2%	99%	
Efficiency - Battery operation	95%			95,5%		
Display	LED + LCD					
Protection degree	IP20					
Interface	Standard equipment: RS232, USB, dry contacts, Cold Start Optional: SNMP, parallel kit, MODBUS, PROFIBUS					
ENVIRONMENT						
Operating temperature	0 ~ 40 °C					
Storage temperature	-25 ~ 55 °C (UPS) -15 ~ 40 °C (UPS with batteries)					
Relative humidity	0 ~ 95% (no condensing)					
Noise (dBA at 1 meter far)	Maximum 63 dB				≤68 dB (Online Mode) ≤50 dB (Eco Mode)	≤70 dB (Online Mode) ≤50 dB (Eco Mode)
Altitude	<1000 m; load derated 1% for every 100 m from 1000 ~ 4000 m					
MECHANICAL DATA						
Dimensions W*D*H (mm)	500*850*1600		650*830*1600		840*1050*1900	
Weight (Kg)	190	200	220	250	450	460
Colour	Cabinet: RAL 7016 Door: RAL 7016 + RAL 7012					
Compliance	European directive: 2014/35/EU Low voltage directive; and 2014/30/EU Electromagnetic compatibility directive • Security: EN62040-1 • EMC: EN62040-2 • Performance: EN62040-3 (Voltage Frequency Independent) VFI - SS - 111					

Note: technical specifications and data could be changed without notification