

SATURN THREE PHASE



- High frequency, online, double conversion with full digital control.
- Compact design for a smaller footprint.
- Wide input voltage and frequency windows.
- 0.9 power factor.
- Adjustable charger – internal or external battery options.
- Self-testing when UPS startup.
- RS232/USB/EPO communication interface, SNMP optional.
- Cold start and auto restart functions.
- Design with maintenance bypass switch.
- Intelligent fan speed regulation.
- Multiple protection function: short-circuit, overload, overheat, battery overcharge and over-discharge, output low voltage and fan fault alarm.
- Suitable for electronic, non-inductive loads.
- 12 Month Warranty.



SATURN THREE PHASE



HIGH FREQUENCY, TRANSFORMER LESS TECHNOLOGY TECHNICAL SPECIFICATIONS

MODEL	SAT1033	SAT2033	SAT3033	SAT4033
Capacity	10KVA / 9kW	20KVA / 18kW	30KVA / 27kW	40KVA / 36kW
INPUT				
Voltage	380 / 400 / 415VAC (3Ph + N + PE)			
Voltage Range	305 - 478VAC (Full load); 208 - 478VAC (50% load)			
Frequency Range	40 - 70Hz (50/60Hz Auto-Sensing)			
Power Factor	≤ 0.99			
Bypass Voltage Range	Max. voltage: 220V: +25% (Optional + 10% + 15% + 20%) 230V: +20% (Optional 10% + 15%) 240V: +15% (Optional +10%) Min. voltage: -45% (Optional -20%, -30%)			
Frequency Protection	50/60Hz ± 10%			
ECO Range	Same as bypass			
Harmonic Distortion	≤ 3% Linear load			
OUTPUT				
Output Voltage	380 / 400 / 415VAC (3Pn+N+PE)			
Voltage Regulation	±1%			
Power Factor	0.9			
Output Frequency	Line mode	±1% / ±2% ±4% / ± 5% / ± 10% of the rated frequency (Optional)		
	Bypass mode	50 / 60 (±0.1%(Hz))		
	AC mode to battery mode	0ms		
Transfer Time	Inverter to Bypass	0ms		
Waveform (Battery Mode)	Pure Sinewave			
Power Factor	3:1			
Harmonic Distortion	≤ 2% Linear load ≤5% Non linear load			
Output Frequency	AC mode	≤ 110%, last 60min; ≤ 125%, last 10min; ≤ 150%, last 1min; > 150% turn to bypass immediately		
	Battery mode	≤ 110%, last 10min; ≤ 125%, last 1min; ≤ 150%, last 5s; > 150% turn to bypass immediately		
Efficiency	up to 93.5%	up to 94.5%		
BATTERY				
Voltage Std Unit	240 VDC 20 x 12V9AH +N-	240VDC 2 x 20 x 12V9AH +N-	240VDC 3 x 20 x 12V9AH +N-	360VDC 2 x 30 x 12V9AH
Charge Current Std Unit	1.35A	2.7A	4.05A	2.7A
Charge Current Long Run Unit	14A Max.	18A Max.	20A Max	20A Max.
PHYSICAL				
Dimension WxDxH (mm)	Std Unit: 250 x 900 x 868 Long Run Unit: 250 x 580 x 655			
Net Weight (kg's)	129/35	187/40	236/43	239/46
ENVIRONMENT				
Operating Temperature	0 °C - 40 °C			
Storage Temperature	-25 °C - 55 °C			
Humidity Range	0 - 95% (Non condensing)			
Altitude	< 1500m, derating required when >1500m			
Noise Level	>55dB	>58dB	>61dB	>64dB
STANDARDS				
Safety	IEC/EN62040-1, IEC/EN62477-1			
EMC	IEC/EN62040-2, IEC61000-4-2, IEC61000-4-3, IEC61000-4-4, IEC61000-4-5, IEC61000-4-6, IEC61000-4-8			
SUITABLE APPLICATIONS				
COMMERCIAL IT APPLICATIONS NON-INDUCTIVE LOADS				