

# Saturn X9

## True on-Line Double Conversion

Saturn X9 - Series



- True double-conversion
- Output Power Factor 0.9
- User-friendly and easy-shift LCD display
- Wide input voltage range
- Input power factor correction 0.98
- 50Hz/60Hz frequency converter mode
- Emergency power off function (EPO)
- Eco mode operation for energy saving (ECO)
- Generator compatible
- Smart battery charger design for optimized battery performance
- Hot-swappable battery design

### Saturn X9 1K/1.5K/2K/3K Rack/Tower Online UPS Selection Guide

MODEL		Saturn X9 1K	Saturn X9 1.5K	Saturn X9 2K	Saturn X9 3K
PHASE		Single phase with ground			
Capacity		1000 VA / 900 W	1500 VA / 1350W	2000 VA / 1800 W	3000 VA / 2700 W
<b>INPUT</b>					
Voltage Range	Low Line Transfer	160 VAC ± 5% or 80 VAC ± 5% @ 100% load 110 VAC ± 5% or 55 VAC ± 5% @ 50% load			
	Low Line Comeback	175 VAC ± 5 VAC or 87VAC ± 3 VAC			
	High Line Transfer	300 VAC ± 5 VAC or 150 VAC ± 3 VAC			
	High Line Comeback	285 VAC ± 5 VAC or 143 VAC ± 3 VAC			
Frequency Range		45Hz ~ 55 Hz or 56 Hz ~ 65 Hz			
Power Factor		0.99 @ nominal voltage (100% load)			
<b>OUTPUT</b>					
AC Voltage Regulation (Batt. Mode)		± 2%			
Frequency Range (Synchronized Range)		48 ~ 52 Hz or 58 ~ 62 Hz			
Frequency Range (Batt. Mode)		50 Hz ± 0.2 Hz or 60Hz ± 0.2 Hz			
Current Crest Ratio		5:1			
Harmonic Distortion		3 % THD (Linear Load) 6 % THD (Non-linear Load)		4 % THD (Linear Load) 7 % THD (Non-linear Load)	
Transfer Time	Line mode to Battery mode	Zero			
	Inverter to Bypass	Zero			
Waveform (Batt. Mode)		Pure Sinewave			
<b>EFFICIENCY</b>					
AC Mode		~90% @full load			
Battery Mode		~86% @full load			
<b>BATTERY</b>					
Standard Model	Battery Type	12 V / 9 AH	12 V / 9 AH	12 V / 9 AH	12 V / 9 AH
	Numbers	2	3	4	6
	Typical Recharge Time	5 hours recover to 90% capacity			
	Charging Current (max.)	1.0 A			
Long-run Model	Charging Voltage	41.1 VDC ± 1%		82.2 VDC ± 1%	
	Battery Type	Depending on the capacity of external batteries			
	Numbers				
	Charging Current (max.)	8.0 A/4.0 A(typical) adjustable			
Long-run Model	Charging Voltage	41.1 VDC ± 1%		82.2 VDC ± 1%	
<b>INDICATORS</b>					
LCD Display		Load level, Battery level, AC mode, Battery mode, Bypass mode, and Fault indicator			
<b>ALARM</b>					
Battery Mode		Sounding every 4 seconds			
Low Battery		Sounding every second			
Overload		Sounding twice every second			
Fault		Continuously sounding			
<b>PHYSICAL</b>					
Standard Model	Dimension, D x W x H (mm)	380 x 438 x 88	480 x 438 x 88		600 x 438 x 88
	Net Weight (kgs)	12.9	17.6	20.6	28
Long-run Model	Dimension, D x W x H (mm)	380 x 438 x 88	480 x 438 x 88		600 x 438 x 88
	Net Weight (kgs)	13	13	24	24
<b>ENVIRONMENT</b>					
Humidity		20-90 % RH @ 0- 40°C (non-condensing)			
Noise Level		Less than 50dBA @ 1 Meter			
<b>MANAGEMENT</b>					
Smart RS-232		Supports Windows® 2000/2003/XP/Vista/2008, Windows® 7, Linux, Unix, and MAC			
Optional USB					
Optional SNMP					

