



Uninterruptible Power Supplies

SATURN SINGLE PHASE
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6KVA 10KVA 15KVA 20KVA

secure power



Parallel redundancy double conversion online UPS series

- Double conversion true online UPS.
- Level 9 compliant UPS.
- Parallel redundancy up to 4 units.
- Wide input voltage and frequency windows.
- Unity power factor at 0.9.
- ECO mode for energy saving.
- Common battery.
- Programmable battery voltage from ± 96 Vdc to ± 240 Vdc.
- Built-in batteries make UPS ready to use.
 - DSP-controlled technology.
 - 3-level intelligent charge modes with smart charge current adjustment.
- Powerful charger – up to 10A.
- Versatile communication interfaces provided for different applications.
- Superior overload capability.
- Programmable control and monitoring software via RS232 port.
 - Emergency power off.
 - DC start.

MODEL	SAT0611	SAT1011	SAT1511	SAT2011 / SAT2031
Capacity (VA/Watts)	6KVA / 5 400W	10KVA / 9 000W	15KVA / 13 500W	20KVA / 18 000W
INPUT				
Nominal voltage	220/230/240Vac	220/230/240Vac OR 380/400/415Vac (3Ph+N+PE)		
Operating voltage range	120-276Vac		208-478Vac	
Operating frequency range	50Hz:45-55Hz; 60Hz:54-66Hz (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%)			
ECO range	Same as bypass			
Harmonic distortion (THDI)	<3% (100% linear load)		<5% (100% linear load)	
Generator input	Support			
OUTPUT				
Rated voltage	220/230/240Vac			
Power factor	0,9			
Voltage regulation	- +1%			
Frequency	Line mode	±1%/±2%/±4%/±5%/±10% of the rated frequency (optional)		
	Bat. mode	50/60(±0,1)Hz		
Crest factor	3:1			
Harmonic distortion (THDv)	≤2% with linear load; ≤5% with non-linear load			
Efficiency	>93,5%		>94,5%	
BATTERY				
Battery voltage	192Vdc / 240Vdc			
Capacity (standard unit)	12V/7Ah/9Ah			
Typical recharge time	6-8 hours (to 90% of full capacity)			
Charge current	1A(standard unit); Long run unit max. current 10A(charge current can be set according to battery capacity installed)			
SYSTEM FEATURES				
Transfer time	Mains to battery: 0ms ; Mains to bypass: 0ms			
Overload	Line mode	Load≤110%: last 60min, ≤125%: last 10min, ≤150%: last 1min, >150% turn to bypass mode immediately		
	Bypass mode	40A(Breaker)	60A(Breaker)	100A(Breaker)
Short circuit	Hold whole system			
Overheat	Line mode: Turn to bypass; backup mode: shut down UPS immediately			
Low battery voltage	Alarm and switch off			
Self-diagnostics	Upon power on and software control			
Battery	Advanced battery management			
Audible & visual alarms	Line failure, low battery, overload, system fault			
LED & LCD display	Line mode, bat. mode, eco mode, bypass mode, low battery, overload & UPS fault			
LCD display	Input voltage, input frequency, output voltage, output frequency, load percentage, battery voltage, inner temperature & remaining battery backup time			
Communication interface	Rs232, USB, SNMP card(optional), parallel card(optional), relay card (optional)			
ENVIROMENTAL				
Operating temperature	0°C - 40°C			
Storage temperature	-25°C - 55°C			
Humidity range	0-95% (non-condensing)			
Altitude	< 1500m			
Noise level	<55dB		<58dB	
PHYSICAL				
Dimension (DxWxH)mm	502x250x616			
Net Weight (kg)	62/18	64/20	46	
STANDARDS				
Safety	IEC/EN62040-1, IEC/EN60950-1			
EMC	IEC/EN62040-2, IEC61000-4-2, IEC61000-4-3, IEC61000-4-4, IEC61000-4-5, IEC61000-4-6, IEC61000-4-8			

* Due to continuous product improvements specifications are subject to change without further notice.