Tescom® SA
Uninterruptible Power Supplies

Uninterruptible Power Supplies

Saturn RM Series
1KVA 2KVA 3KVA

secure power



Pure sine wave, rack mount online UPS.

- True double-conversion.
- Wide input voltage range (110-300 VAC)
- Input power factor correction 0,99.
- Output power factor 0,9.
- High power factor charger up to 12A with very low ripple current when charging battery.
- Charger current can be seting by LCD.
- 50Hz/60Hz frequency converter mode.
- Emergency power off function (EPO).
- Eco mode operation for energy saving (ECO).
- Generator compatible.
- SNMP/USB/RS232 multiple communications.
- Smart battery charger design for optiimised battery performance.
- Selectable output voltage: 200, 208, 220, 230, 240Vac.

SATURN RM

1KVA 2KVA 3KVA

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MODEL		RM1KVA	RM2KVA	RM3KVA
Phase		Single phase with ground		
Capacity		1000VA / 900W	2000VA / 1800W	3000VA / 2700W
INPUT				
Nominal Voltage		200/208/220/230/240 Vac		
Voltage Range	Low line transfer	160Vac ±5% @100%-80% load; 140Vac ±5% @80%-70% load; 120Vac ±5% @70%-60% load; 110Vac ±5% @60%-0% load (ambient temp <35℃)		
	Low line comeback	175Vac ±5% @100%-80% load; 155Vac ±5% @80%-70% load; 135Vac ±5% @70%-60% load; 125Vac ±5% @60%-0% load (ambient temp <35℃)		
	High line transfer	300VAC ±5%		
	High line comeback	290VAC ±5%		
Operating Frequency range		40Hz - 70Hz		
Power factor		0,99		
Generator input		Support		
OUTPUT				
Output voltage		200/208/220/230/240VAC		
Power factor		0.9		
Voltage regulation		±1%		
Frequency	Line mode (Synchronized range)	47-53Hz or 57-63Hz		
	Batt. mode	(50/60 ±0.1)Hz		
Crest factor		3:1		
Harmonic distortion (THDv)		≤3% THD (linear load) ≤6% THD (non linear load)		
Transfer Time	AC mode to batt. mode	Zero		
	Inverter to bypass	4 min (typical)		
Waveform		Pure Sinewave		
Efficiency	Line mode	88%	92%	
	Batt mode	85%	87%	89%
BATTERY				
Battery type		12V7AH		
Numbers		2	4	6
Backup time		Long run unit depends on the capacity of external batteries		
Typical recharge time (standard mode)		4 hours recover to 90% capacity (Typical)		
Charging current		1A		
SYSTEM FEATURES				
Line Mode Batt mode	Ambient temp. <35˚C	105%-110% UPS transfer to bypass after 10 min when utility is normal; 110%130%UPS transfer to bypass after 1 min when utility is normal 130%-150% UPS transfer to bypass after 5 sec when utility is normal: >150%UPS transfer to bypass immediately when the utility is normal		
	35˚C<ambient temp <40˚C	105%-110% UPS transfer to bypass after 1 min when utility is normal; 110%130%UPS transfer to bypass after 5 sec when utility is normal >130%UPS transfer to bypass immediately when the utility is normal		
Short circuit		Hold whole system		
Overheat		Line mode: Switch to bypass; Backup mode: shut down UPS immediately		
Under voltage of battery		Alarm and switch off		
EPO (optional)		Shut down UPS immediately		
Audible & Visual alarms		Line failure, Battery low, Overload, System fault		
Comunication interface		USB (orRS232), SNMP card (optional), Relay card (optional)		
ENVIROMENT				
Operating temperature		0-40˚C		
Storage temperature		-25˚C - 55˚C		
Humidity range		20-90% RH @ 0-40˚C (non-condensing)		
Altitude		<1000m		
Noise level		Less than 50dBA @ 1meter		
PHYSICAL				
Dimension (DxWxH) mm		440x430x86.5	440x552x86.5	440x720x86.5 / 440x552x86.5
Net Weight (kg)		13.1 / 7.8	21.1 / 10.3	28.5 / 12.3
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.

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All products are manufactured to the following standards:

UL CE TÜV ISO 9001