

SPARK RT



• True double-conversion online UPS

A true double conversion UPS will provide clean power with high quality to fully protect mission-critical devices such as sensitive networks, server centers with small computers, telecom applications, as well as industrial applications.

• Output power factor 0.9

Spark RT is a high-density UPS with output power factor 0.9 to provide higher performance and efficiency to critical applications.

• User-friendly and easy-shift LCD display

The digital display at front panel can be easily shifted through LCD setting to suit the installation format, vertical stand or horizontal wall mount.



Spark 1000-3000 RT

Spark 6000-10 000 RT



Rack display



Tower display



• Rack/Tower design

Spark RT series is designed in true universal-mount case. It can be easily installed as floor-standing tower or in 19-inch rackmount bracket.



19" rack-mounting



Floor-standing Tower

• Programmable power management outlets for 1-3K models only

With programmable power management outlets, users can easily and independently control load segments. During power failure, this feature enables users to extend battery time to mission-critical devices by timely shutting down the non-critical devices.



Programmable Outlets (P1)- connect to non-critical devices

• 50/60 Hz frequency converter mode

Lock output frequency at 50Hz or 60Hz to suit power sensitive equipments.

• ECO and advanced ECO mode for energy saving

It allows UPS to operate in high efficiency up to 97% in energy-saving ECO mode. In this operation mode, load is supplied by the mains. In the event of a mains failure, the inverter will take over the load and constantly provide supply to the connected systems. Spark RT 1-3K even offers advanced ECO mode to allow UPS to operate at higher efficiency up to 98%.

• Emergency Power Off Function (EPO)

This feature can secure the personnel and equipment in case of fires or other emergencies.

• Hot-swappable battery design for 1-3K models only

This design ensures clean and uninterruptible power to protected equipment during battery replacement.



• DSP technology applied for 6K and up models

A DSP controller provides an improved and cost-effective solution with high performance.

• Active input power factor correction 0.99 for 6K and up models

This feature will save more energy and its power factor performance is more stable to meet higher environment standards.

• N+X parallel redundancy available for 6K and up models

Spark RT (6K and up models) can be used in parallel operation with up to 3 units. It increases power capacity, safety and availability.

SPARK RT 1KVA/1.5KVA/2KVA/3KVA



Galleon X9 II 1K(L) / 1.5K(L) / 2K(L) / 3K(L)

- True double-conversion online UPS
- Output power factor 0.9
- User-friendly and easy-shift LCD display
- Rack/Tower design
- Programmable power management outlets
- 50/60 Hz frequency converter mode
- ECO and advanced ECO mode for energy saving
- Emergency Power Off Function (EPO)
- Hot-swappable battery design



For UL and cTUVus spec, please check our sales directly.

SPARK RT 1KVA/1.5KVA/2KVA/3KVA Rack/Tower Online UPS Selection Guide

MODEL	Spark 1000 RT		Spark 1500 RT		Spark 2000 RT		Spark 3000 RT		
PHASE	Single phase with ground								
CAPACITY VA/W	1000 VA / 900W		1500 VA / 1350W		2000 VA / 1800W		3000 VA / 2700W		
INPUT									
Nominal Voltage	100*/110*/115*/120 /127 VAC or 200/208/220/230/240 VAC								
Voltage Range	55-150 VAC ± 5% or 110-300 VAC ± 5% @ 50% load ; 80-150 VAC ± 5% or 160-300 VAC ± 5% @ 100% load								
Frequency Range	40Hz ~ 70Hz								
Harmonic Distortion(THDI)	≤ 5% @ nominal input voltage								
Power Factor	≥ 0.99 @ Nominal Voltage (100% Load)								
OUTPUT									
Output Voltage	100*/110*/115*/120/127 VAC or 200/208/220/230/240 VAC								
AC Voltage Regulation (Batt. Mode)	± 1%								
Frequency Range (Synchronized Range)	57 ~ 63 Hz or 47 ~ 53 Hz								
Frequency Range (Batt. Mode)	60Hz ± 0.1Hz or 50 Hz ± 0.1Hz								
Current Crest Ratio	3:1 (max.)								
Harmonic Distortion	≤ 2% THD (Linear Load) ; ≤ 4% THD (Non-linear load)								
Transfer Time	AC Mode to Battery Mode	Zero							
	Inverter to Bypass	4 ms (Typical)							
Waveform (Batt. Mode)	Pure Sinewave								
EFFICIENCY									
AC Mode	90%		90%		91%		91%		
ECO Mode	97%		97%		97%		97%		
Battery Mode	88%	89%	89%	88%	89%	80%			
BATTERY									
Standard Model	Battery Type	12 V / 9 Ah	12 V / 7 Ah	12 V / 9 Ah	12 V / 9 Ah	12 V / 7 Ah	12 V / 9 Ah		
	Numbers	2	3	3	4	6	6		
	Typical Recharge Time	4 hours recover to 90% capacity							
	Charging Current (max.)	1.5 A*							
	Charging Voltage	27.4 VDC ± 1%	41.1 VDC ± 1%	41.1 VDC ± 1%	54.8 VDC ± 1%	82.1 VDC ± 1%	82.1 VDC ± 1%		
Long-run Model	Battery Type	Depending on the capacity of external batteries							
	Numbers	2	3	3	4	6	6		
	Charging Current (max.)	1A / 2A / 4A / 8A							
	Charging Voltage	27.4 VDC ± 1%	41.1 VDC ± 1%	41.1 VDC ± 1%	54.8 VDC ± 1%	82.1 VDC ± 1%	82.1 VDC ± 1%		
INDICATORS									
LCD Display	Load level, Battery level, AC mode, Battery mode, Bypass mode, and Fault indicator								
ALARM									
Battery Mode	Sounding every 4 seconds								
Low Battery	Sounding every second								
Overload	Sounding twice every second								
Fault	Continuously sounding								
PHYSICAL									
Standard Model	Dimension, D x W x H (mm)	410 x 438 x 88 [2U]		410 x 438 x 88 [2U]	510 x 438 x 88 [2U]	630 x 438 x 88 [2U]	630 x 438 x 88 [2U]		
	Net Weight (kgs)	11.6	14.2	14.5	19.5	26.5	27.4	10.5	
Long-run Model	Dimension, D x W x H (mm)	410 x 438 x 88 [2U]		410 x 438 x 88 [2U]	410 x 438 x 88 [2U]		510 x 438 x 88 [2U]		
	Net Weight (kgs)	6.5		6.5	6.5		10.5		
ENVIRONMENT									
Humidity	20-90 % RH @ 0- 40°C (Non-condensing)								
Noise Level	Less than 50dBA @ 1 Meter								
MANAGEMENT									
Smart RS-232 / USB	Supports Windows* 2000/2003/XP/Vista/2008, Windows* 7/8/10, Linux, Unix, and MAC								
Optional SNMP	Power management from SNMP manager and web browser								

* Derate capacity to 95% when the output voltage is adjusted to 115VAC, derate capacity to 90% when the output voltage is adjusted to 110VAC and derate capacity to 80% when the output voltage is adjusted to 100VAC/200VAC/208VAC.
 **If standard UPS is equipped with additional charger, the available setting options become 2A, 3A and 4A.
 Product specifications are subject to change without further notice.

SPARK RT 6KVA/10KVA



Spark 6000 RT/ Spark 10 000 RT

- True double-conversion online UPS
- Output power factor 0.9
- User-friendly and easy-shift LCD display
- Rack/Tower design
- Programmable power management outlets
- 50/60 Hz frequency converter mode
- ECO and advanced ECO mode for energy saving
- Emergency Power Off Function (EPO)
- DSP technology applied
- Active input power factor correction 0.99
- N+X parallel redundancy



Galleon X9 6KVA/10KVA Rack/Tower Online UPS Selection Guide

MODEL		Spark 6000 RT	Spark 6000 RT ISO	Spark 10 000 RT	Spark 10 000 RT ISO
PHASE		Single phase with ground			
CAPACITY		6000 VA / 5400 W		10000 VA / 9000 W	
INPUT					
Nominal Voltage		200/208/220/230/240 VAC			
Voltage Range		110-300 VAC ± 3% at 50% load ; 176-300 VAC ± 3% at 100% load			
Frequency Range		46-54 Hz or 56-64 Hz			
Power Factor		≥ 0.99 @ 100% load			
OUTPUT					
Nominal Voltage		200/208/220/230/240 VAC	104 VAC x 2 / 208 VAC or 110 VAC x 2 / 220 VAC or 115 VAC x 2 / 230 VAC or 120 VAC x 2 / 240 VAC	200/208/220/230/240 VAC	104 VAC x 2 / 208 VAC or 110 VAC x 2 / 220 VAC or 115 VAC x 2 / 230 VAC or 120 VAC x 2 / 240 VAC
AC Voltage Regulation		± 1%	± 3%	± 1%	± 3%
Frequency Range(Synchronized Range)		46-54 Hz or 56-64 Hz			
Frequency Range(Batt. Mode)		50 Hz ± 0.1 Hz or 60 Hz ± 0.1 Hz			
Current Crest Ratio		3:1 (max.)			
Harmonic Distortion		≤ 2 % THD (Linear Load), ≤ 4 % THD (Non-linear Load)	≤ 3.5 % THD (Linear Load), ≤ 7 % THD (Non-linear Load)	≤ 2 % THD (Linear Load), ≤ 4 % THD (Non-linear Load)	≤ 3.5 % THD (Linear Load), ≤ 7 % THD (Non-linear Load)
Transfer Time	AC Mode to Battery Mode	Zero			
	Inverter to Bypass	Zero			
Waveform (Batt. Mode)		Pure Sinewave			
EFFICIENCY					
AC Mode		91%	85%	91%	85%
ECO Mode		96%	87%	96%	87%
Battery Mode		88%	82%	88%	82%
BATTERY					
Standard Model	Battery Type	12 V / 7 Ah		12 V / 9 Ah	
	Numbers	20 (18-20 pcs adjustable)*		20 (18-20 pcs adjustable)*	
	Typical Recharge Time	7 hours recover to 90% capacity		9 hours recover to 90% capacity	
	Charging Current (max.)	1.0 A		1.0 A	
Long Run Model	Float Charging Voltage	273 VDC (based on battery numbers at 20 pcs)			
	Battery Type and Numbers	Depending on applications			
	Charging Current (max.)	4.0 A		4.0 A	
	Float Charging Voltage	273 VDC (based on battery numbers at 20 pcs)			
INDICATORS					
LCD Display		UPS status, Load level, Battery level, Input/Output voltage, Discharge timer, and Fault conditions			
ALARM					
Battery Mode		Sounding every 4 seconds			
Low Battery		Sounding every second			
Overload		Sounding twice every second			
Fault		Continuously sounding			
PHYSICAL					
Standard Model	Dimension, D x W x H (mm)	UPS unit: 606 x 438 x 133 [3U] Battery pack: 606 x 438 x 133 [3U]	UPS unit: 606 x 438 x 133 [3U] Battery pack: 606 x 438 x 133 [3U] ISO bank: 606 x 438 x 133 [3U]	UPS unit: 686 x 438 x 133 [3U] Battery pack: 606 x 438 x 133 [3U]	UPS unit: 686 x 438 x 133 [3U] Battery pack: 606 x 438 x 133 [3U] ISO bank: 686 x 438 x 133 [3U]
	Net Weight (kgs)	UPS unit: 20 Battery pack: 58	UPS unit: 20 Battery pack: 58 / ISO bank: 61	UPS unit: 23.5 Battery pack: 65	UPS unit: 23.5 Battery pack: 65 / ISO bank: 90
long-run Model	Dimension, D x W x H (mm)	606 x 438 x 133 [3U]	UPS unit: 606 x 438 x 133 [3U] ISO bank: 606 x 438 x 133 [3U]	686 x 438 x 133 [3U]	UPS unit: 686 x 438 x 133 [3U] ISO bank: 686 x 438 x 133 [3U]
	Net Weight (kgs)	20	UPS unit: 20 / ISO bank: 61	23.5	UPS unit: 23.5 / ISO bank: 90
ENVIRONMENT					
Operating Humidity		0-95 % RH @ 0- 40°C (Non-condensing)			
Noise Level		Less than 58dB @ 1 Meter		Less than 60dB @ 1 Meter	
MANAGEMENT					
Smart RS-232 / USB		Supports Windows® 2000/2003/XP/Vista/2008, Windows® 7/8/10, Linux and MAC			
Optional SNMP		Power management from SNMP manager and web browser			

*With internal batteries from 18-19 pcs, the unit will de-rate according to formula: P=P_{Rated} x N/20.

** If the UPS is installed or used in a place where the altitude is above 1000m, the output power must be derated one percent per 100m.

* L means long-run mod.

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