

On-Line UPS

Sapphire RT Series



1kVA - 2kVA



Features:

- Rack/Tower Convertible Design
- LCD Display may be rotated by simply pushing front button
- True Online Double Conversion
- Output Power Factor 0.9
- Comprehensive display allows easy monitoring and access of UPS status
- Smart SNMP works with either USB or RS-232
- Hot-swappable battery
- Efficiency up to 90%
- Estimated remaining time displayed on LCD
- Supports Economic (ECO) Operation Mode
- Cold Start
- Power shedding function may turn off noncritical load in battery backup mode
- Emergency Power Off (EPO)
- Frequency Converter Mode is selectable

On-Line UPS

UPS SPECIFICATIONS:

Model	Sapphire RT Series		Sapphire RT 1		Sapphire RT 1.5		Sapphire RT 2	
Capacity	VA/W		1000VA/900W		1500VA/1350W		2000VA/1800W	
Input	Voltage Range		160-290VAC @ full load					
			140-290VAC @70%< load≤80%					
			120-290VAC @60%< load≤70%					
			110-290VAC @load≤60%					
	Frequency Range		Auto-Sensing					
	Phase		Single phase with ground					
	Current THDI		<7% (100% nonlinear load)					
	Power Factor		>0.98					
	Generator Input		Support					
	Breaker		7A		10A		16A	
	Input Socket		IEC320 C13-10A		IEC320 C13-10A		IEC320 C20-16A	
AC power cord		IEC320 C14-10A		IEC320 C14-10A		IEC320 C19-16A		
Output	Voltage		200/208/220/230/240VAC					
	Power Factor		0.9					
	Voltage Regulation		±2%					
	Frequency (Line Mode)		46-54Hz@50Hz					
	Frequency (Battery Mode)		50/60Hz±0.02Hz					
	Current Crest Ratio		3:1					
	Harmonic Distortion		<=3% THD (Linear Load)					
			<=5% THD (Non-Linear Load)					
	Output Waveform		Pure Sinewave					
	Outlet		(IEC C13-10A)*6		(IEC C13-10A)*6		(IEC C13-10A)*6	
	Overload Capacity	Line Mode	30S @ 100%-150% ;300ms @ >150%					
Battery Mode		30S @ 100%-150% ;300ms @ >150%						
Efficiency	AC Mode		Full load>=90%					
	Battery Mode		Full load>=85%					
	ECO Mode		Full load>=94%					
Battery	Number of Batteries Per Set		2		3		4	
	Battery Type		12V/9Ah					
	Backup Time		Estimated remaining time displayed on the LCD					
	Recharge Time (to 90%)		5 Hours					
	Charging Current (Max)		1.2A		1.2A		1.2A	
	Rated Battery Voltage		24VDC		36VDC		48VDC	
	Protect		Over-voltage(14.7v) / Low-voltage(10v)					
	Battery Socket		Anderson like PowerPole Modular Connectors					
* Product specifications are subject to change without further notice								

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Model	Sapphire RT Series	Sapphire RT 1	Sapphire RT 1.5	Sapphire RT 2
Transfer Time	Mains ↔ Battery	0ms		
	Mains ↔ Bypass	<4ms		
Optional Features	Economic Mode (ECO Mode)	Support		
	EPO function	EPO connector on backplate and EPO keys on the front		
	Frequency Converter Mode	Support, set by LCD, can be 50Hz or 60Hz fixed frequency out		
Indicator	LCD Version (with LED)	Load/Battery/Input/Output/Operating Mode Information		
Audible Alarm	Battery Mode	Sounding every 4 seconds		
	Low Battery	Sounding every second		
	Overload	Sounding twice every second		
	Fault	Continuously sounding		
Physical	Dimension (WxDxH) mm	440 x 430 x 86.5		440 x 572 x 86.5
	Net Weight (kg)	15.1	18.1	22.2
Environment	Safety	CE		
	Operating Environment	0-40°C		
	Relative Humidity	0-90% (non-condensing)		
	Altitude	<1500m when >1500m, derating		
	Noise Level	<50dB@ 1 Meter		
Interface	Smart RS-232/USB (Preferential)	External Modbus card supported by RS232, Software supports Windows Family, Linus, FreeBSD		
	Intelligent Slot	SNMP (independent to RS232)		
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