

## Sapphire RT Series

Model

- Sapphire RT 1.5



### 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

## Sapphire RT Technical Specifications

Model		Sapphire RT 1.5
Capacity	VA/W	1500VA/1350W
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	10A
Output	Input Socket	IEC320 C13-10A
	AC power cord	IEC320 C14-10A
	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
Efficiency	Outlet	(IEC C13-10A)*6
	Overload	Line Mode 30S @ 100%-150% ;300ms @ >150%
	Capacity	Battery Mode 30S @ 100%-150% ;300ms @ >150%
	AC Mode	Full load>=90%
	Battery Mode	Full load>=85%
Battery	ECO Mode	Full load>=94%
	Number of Batteries Per Set	3
	Battery Type	12V/9Ah
	Backup Time	Estimated remaining time displayed on the LCD
	Recharge Time (to 90%)	5 Hours
	Charging Current (Max)	1.2A
	Rated Battery Voltage	36VDC
	Protect	Over-voltage (14.7v) / Low-voltage (10v)
	Battery Socket	Anderson like PowerPole Modular Connectors
	Transfer Time	Mains ↔ Battery 0ms
Optional Features	Mains ↔ Bypass	<4ms
	Economic Mode (ECO Mode)	Support
	EPO function	EPO connector on backplate and EPO keys on the front
Indicator	Frequency Converter Mode	Support, set by LCD, can be 50Hz or 60Hz fixed frequency out
	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
	Net Weight (kg)	18.1
Environment	Safety	CE
	Operating Environment	0-40°C
	Relative Humidity	0-90% (non-condensing)
	Altitude	<1500m when >1500m, derating
Interface	Noise Level	<50dB@ 1 Meter
	Smart RS-232/USB (Preferential)	External Modbus card supported by RS232, Software supports Windows Family, Linus, FreeBSD
	Intelligent Slot	SNMP (independent to RS232)

\* Product specifications are subject to change without further notice