

Smart-UPS RT

APC SMART-UPS RT 2000VA 120V



APC Smart-UPS RT, 1400 Watts / 2000 VA, Input 120V / Output 120V, Interface Port DB-9 RS-232, Smart-Slot, USB, Extended runtime model, Rack Height 2 U

Includes: CD with software, Documentation CD, Installation guide, Smart UPS signalling RS-232 cable, USB cable, User Manual

Standard Lead Time: Usually in Stock

Smart-UPS RT Features & Benefits

Availability

| | |
|---|--|
| Automatic internal bypass | Supplies utility power to the connected loads in the event of a UPS overload condition or fault. |
| Scalable runtime | Allows additional run time to be quickly added as needed. |
| Intelligent Battery Management | Maximizes battery performance, life, and reliability through intelligent, precision charging. |
| Hot-swappable batteries | Ensures clean, uninterrupted power to protected equipment while batteries are being replaced |
| Automatic restart of loads after UPS shutdown | Automatically starts up the connected equipment upon the return of utility power. |
| Temperature-compensated battery charging | Prolongs battery life by regulating the charge voltage according to battery temperature. |

Manageability

| | |
|----------------------------------|--|
| Network manageable | Provides remote management of the UPS over the network. |
| InfraStruXure Manager Compatible | Enables centralized management via the APC InfraStruXure® Manager. |
| SmartSlot | Customize UPS capabilities with management cards. |
| LED status indicators | Quickly understand unit and power status with visual indicators. |
| Serial Connectivity | Provides management of the UPS via a serial port. |

Adaptability

| | |
|----------------------------------|---|
| Plug-and-Play external batteries | Ensures clean, uninterrupted power to the loads when adding extra runtime to the UPS. |
| Rack/Tower convertible | Protects the initial investment in the UPS when migrating from tower to rack-mount environment. |
| Flash-upgradeable firmware | Easy implementation of new firmware upgrades. |

Serviceability


| | |
|-----------------------------------|---|
| User-replaceable batteries | Increases availability by allowing a trained user to perform upgrades and replacements of the batteries reducing Mean Time to Repair (MTTR) |
| Automatic self-test | Periodic battery self-test ensures early detection of a battery that needs to be replaced. |
| Predictive failure notification | Provides early-warning fault analysis ensuring proactive component replacement. |
| Disconnected battery notification | Warns when a battery is not available to provide backup power. |
| Audible Alarms | Actively let you know if the unit is on battery, if the battery is low or if there is an overload condition. |

Protection


| | |
|----------------------------------|--|
| Frequency and voltage regulation | Gives higher application availability by correcting poor frequency and voltage conditions without using the battery. |
| Power conditioning | Protects connected loads from surges, spikes, lightning, and other power disturbances. |
| Input power factor | Minimizes installation costs by enabling the use of smaller generators and |

| | |
|-----------------------------|--|
| correction | cabling. |
| Generator Compatible | Ensures clean, uninterrupted power to the loads in the event of an extended power outage |
| Cold-start capable | Provides temporary battery power when the utility power is out. |
| Resettable circuit breakers | Enables a quick recovery from overload events. |
| Safety-agency approved | Ensures the product has been tested and approved to work safely with the connected service provider equipment and within the specified environment. UL, FCC, CE, C-Tick approvals. |

Output

| | | |
|----------------------------------|---|---|
| Output Power Capacity | 1400 Watts / 2000 VA | |
| Max Configurable Power | 1400 Watts / 2000 VA | |
| Nominal Output Voltage | 120V | |
| Output Voltage Distortion | Less than 3% | |
| Output Frequency (sync to mains) | 50/60 Hz +/- 3 Hz user adjustable +/- 0.1 | |
| Crest Factor | 3 : 1 | |
| Waveform Type | Sine wave | |
| Output Connections | (6) NEMA 5-15R |  |
| Bypass | Built-in Bypass | |

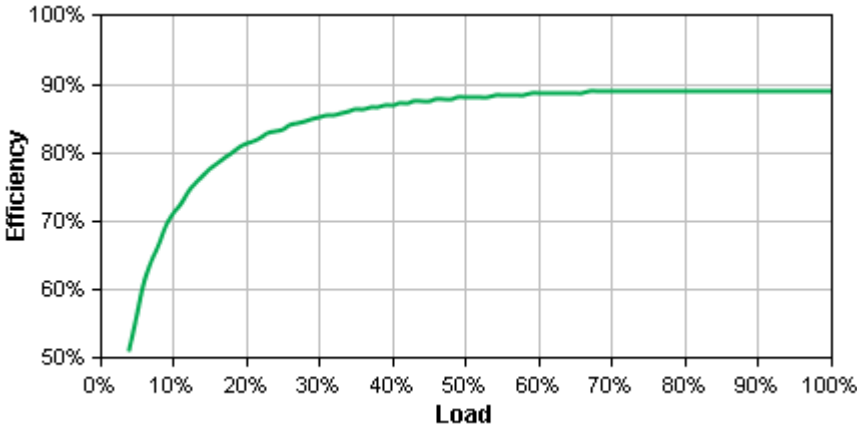
Input

| | | |
|---|----------------------------------|---|
| Nominal Input Voltage | 120V | |
| Input Frequency | 50/60 Hz +/- 5 Hz (auto sensing) | |
| Input Connections | NEMA 5-20P |  |
| Cord Length | 1.83 meters | |
| Input voltage range for main operations | 90 - 150V | |

Batteries & Runtime

| | |
|----------------------------------|---|
| Battery Type | Maintenance-free sealed Lead-Acid battery with suspended electrolyte : leakproof |
| Included Battery Modules | 1 |
| Typical recharge time | 3 hour(s) |
| Replacement Battery | RBC57 , SURTA48XLBP , SURTA48RMXLBP2U |
| RBC™ Quantity | 1 |
| Typical Backup Time at Half Load | 15.2 minutes (700 Watts) |
| Typical Backup Time at Full Load | 5.0 minutes (1400 Watts) |
| Runtime Chart | Smart-UPS RT |
| Extended Run Options | APC SMART-UPS RT 2000VA 120V |

Energy Use/Efficiency



Curve fit to measured efficiency data. All measurements taken in normal operating mode, at typical environmental conditions, with nominal electrical input and resistive load output.

[View Enlarged Chart](#)

Communications & Management

| | |
|---|---|
| Interface Port(s) | DB-9 RS-232,Smart-Slot,USB |
| Available SmartSlot™ Interface Quantity | 1 |
| Control panel | LED status display with load and battery bar-graphs and On Line : On Battery : Replace Battery : Overload and Bypass Indicators |
| Audible Alarm | Alarm when on battery : distinctive low battery alarm : overload continuous tone alarm |
| Emergency Power Off (EPO) | Yes |

Surge Protection and Filtering

| | |
|---------------------|------------|
| Surge energy rating | 540 Joules |
|---------------------|------------|

Physical

| | |
|-----------------|-----------|
| Maximum Height | 432.00 mm |
| Maximum Width | 85.00 mm |
| Maximum Depth | 559.00 mm |
| Rack Height | 2U |
| Net Weight | 27.50 KG |
| Shipping Weight | 31.36 KG |
| Shipping Height | 260.00 mm |
| Shipping Width | 610.00 mm |

| | |
|------------------|-----------|
| Shipping Depth | 737.00 mm |
| Color | Black |
| Units per Pallet | 8.00 |

Environmental

| | |
|---|----------------|
| Operating Environment | 0 - 40 °C |
| Operating Relative Humidity | 0% |
| Operating Elevation | 0-3000 meters |
| Storage Temperature | -20 - 50 °C |
| Storage Relative Humidity | 0% |
| Storage Elevation | 0-15000 meters |
| Audible noise at 1 meter from surface of unit | 45.00 dBA |
| Online Thermal Dissipation | 700.00 BTU/hr |

Conformance

| | |
|----------------------|--------------------------------------|
| Regulatory Approvals | BSMI,CSA,FCC Part 15 Class B,UL 1778 |
| Standard Warranty | 2 years repair or replace |

**The time to recharge to 90% of full battery capacity following a discharge to shutdown using a load rated for 1/2 the full load rating of the UPS.