700VA 420W 120V Line-Interactive UPS - 4 NEMA 5-15R Outlets, Network Card Option, USB, DB9, 1U Rack/Tower

MODEL NUMBER: **SMART700RT1U**



Provides complete battery backup and power protection for servers, switches and other in-rack IT equipment in small-to-mid-size networks.

Highlights

- Protects equipment against blackouts, brownouts, transient surges and line noise
- Keeps AC power running during outages to allow time for file saves and safe shutdown
- Maintains continuous 120V nominal output during brownouts as low as 90V
- 5-15R outlets power and protect networking, telecom and other sensitive equipment
- Optional WEBCARDLX with the latest version of PADM for enhanced remote management

Package Includes

- 700VA 420W 120V Line-Interactive UPS with 4 Outlets
- USB cable
- DB9 cable
- EPO/ROO connector
- Rack-mounting hardware
- Owner's manual

Features

700VA/420W/120V Battery Backup for PC Networks, Security Systems or Digital Signage
This SmartPro® line-interactive UPS system with AVR provides reliable battery backup and AC power protection against blackouts, brownouts, surges and line noise that can damage valuable electronics or destroy data. The SMART700RT1U is ideal protection for point-of-sale and kiosk applications, a small-business VoIP network or rack-mount equipment, such as servers and switches, in your server room or network closet.

Reliable Battery Backup Keeps You Operational Through Power Outages
The field-replaceable, hot-swappable internal battery provides 10 minutes of support at half load (210W) and two minutes at full load (420W), allowing you to work through short power failures and giving you enough time to safely save files and shut down your system in case of a prolonged blackout.

Automatically Turns Back On After Power Is Restored
Battery-independent restart ensures automatic UPS power-up without user interaction after lengthy power outages, even when batteries are expired and require replacement.

Optional WEBCARDLX Network Interface Offers 24/7 Remote Access for Monitoring and Control
The optional WEBCARDLX (sold separately) with the latest version of PowerAlert® Device Manager firmware (PADM) provides enhanced remote management capabilities, including customizable dashboard graphs to fit user preferences. The latest version of PADM firmware and PowerAlert Element Manager (PAEM) software form a powerful tool for expanding maintenance functions in large installations, including firmware update checks and backup and restoration of device configurations.

NEMA 5-15R Outlets Protect Your Connected Components
Four 5-15R outlets in two separate load banks provide connected equipment with pure sine wave AC output during blackouts, overvoltages and severe brownout conditions. Power provided by these outlets is filtered to protect connected equipment against damaging surges and line noise.

Automatic Voltage Regulation (AVR) Corrects Low- and High-Voltage Conditions
AVR protects your equipment from incremental hardware damage, data loss and performance problems caused by brownouts. The SMART700RT1U maintains regulated 120V nominal output during brownouts as low as 90V, while keeping the battery fully charged and ready to take over in case of power failure.

Premium Protection from EMI/RFI Line Noise Helps Your Equipment Perform Better
This UPS system filters out disruptive electromagnetic and radio frequency interference that can inflict hardware damage or data loss. This EMI/RFI filtering also helps your connected components perform better and last longer.

Designed for High Efficiency to Help You Save Money and Protect the Environment
A 98% efficiency rating reduces BTU emissions, energy consumption and, ultimately, your energy costs.

Intuitive Front-Panel Interface for Convenient UPS Operation and Monitoring
The front-panel LCD features detailed UPS and site power status and operating data (including load, voltage and battery data) and multiple screens of configuration and setup options. LEDs indicate AC output availability and fault status. On-screen operational diagram offers an easy-to-grasp visual representation of line and battery modes.

Advanced Communications Ports Allow for Automatic Saves and Shutdowns
DB9 Serial and HID-compliant USB ports connect to a computer running free downloadable PowerAlert software to enable safe unattended shutdown in case of a prolonged power failure. The EPO/ROO port supports emergency shutdown in large facilities or remote On/Off capability. USB and DB9 cables are included.

Auto Probe Allows Autonomous UPS Management
WEBCARDLX allows the use of IP-based Auto Probe feature, which ensures continuous network uptime by communicating with other network devices. If communication is lost, Auto Probe autonomously performs one or more user-configurable actions, including email notifications, which help you return the network devices to an operational state.

Versatile Installation Options
Hardware is included for mounting the UPS in just 1U of space in an EIA-standard 19-inch 4-post or 2-post rack. You can also adapt it for tower mounting using the included hardware. The six-foot power cord with NEMA 5-15P plug connects to a compatible AC outlet.

Specifications

OVERVIEW	
UPC Code	037332239273
UPS Type	Line-Interactive
INPUT	
Input Phase	Single-Phase
Rated input current (Maximum Load)	6.01A (100V); 6.01A (120V); 5.69A (127V)
Nominal Input Voltage(s) Supported	100V AC; 120V AC; 127V AC
UPS Input Connection Type	5-15P
Input Circuit Breakers	(1) 10A
UPS Input Cord Length (ft.)	6
UPS Input Cord Length (m)	1.8
Recommended Electrical Service	15A 120V
OUTPUT	
Output Capacity (VA)	700

Output Capacity (kVA)	0.7
Output Capacity (Watts)	420
Output Capacity (kW)	0.42
Power Factor	0.6
Nominal Voltage Details	120V sinusoidal in line mode and 120V sinusoidal in battery mode
Frequency Compatibility	50 / 60 Hz
Frequency Compatibility Details	Output is regulated to +/-0.05Hz when input frequency exceeds +/-5Hz of nominal.
Output Voltage Regulation (Line Mode)	For 100V: 90VAC +/-5% -115VAC +/- 5% (78VAC +/- 5% -115VAC +/- 5%(@70VAC Input)) For 120V: 102VAC +/- 5% -139VAC +/- 5%, (78VAC +/- 5% -139VAC +/- 5%(@70VAC Input)), For 127V: 108VAC +/- 5% -145VAC +/- 5% (78VAC +/-5% -145VAC +/- 5% (@70VAC Input))
Output Voltage Regulation (Battery Mode)	-10%, +6%
Load Management Receptacles	BANK OF 2 OUTLETS (LOAD 1); BANK OF 2 OUTLETS (BANK 2)
Output AC Waveform (AC Mode)	Pure Sine wave
Output AC Waveform (Battery Mode)	Pure Sine wave
Nominal Output Voltage(s) Supported	120V
Output Receptacles	(4) 5-15R
Individually Controllable Load Banks	Yes
BATTERY	
Battery Type	Valve Regulated Lead Acid (VRLA)
Runtime Full Load (min.)	3 min. (420W)
Runtime Half Load (min.)	10 min. (210W)
Expandable Runtime	No
DC System Voltage (VDC)	12
Battery Recharge Rate (Included Batteries)	6 Hours to 90%
Battery Access	Battery access door
Internal UPS Replacement Battery Cartridge	RBC128-1U
Battery Replacement Description	Hot-swappable, user replaceable batteries
VOLTAGE REGULATION	
Voltage Regulation Description	Automatic voltage regulation (AVR) maintains line power operation with input voltage as low as 90 (±5%). Input voltage range of 90 to 139
Overvoltage Correction	Voltage reduction of 15% applies when input is 139V to 162V (120V), 145V to 162V (127V), 115V to 139V (100v); All voltage setpoints within ±5% tolerance
Undervoltage Correction	Voltage boost of 15% applies when input is 89V (HI Sensitivity) / 70V (LO sensitivity) to 102V @120V, 93V (HI sensitivity) / 70V (LO sensitivity) to 108V @127V, 80V (Hi sensitivity)/ 70V @100V; All voltage setpoints within ±5% tolerance

USER INTERFACE, ALERTS & CONTROLS	
Front Panel LCD Display	Front panel LCD information and configuration screen offers detailed UPS and site power status and operating data, plus configuration of voltage, frequency, operating mode, alarm function and a variety of additional options (see manual)
Switches	ON button controls UPS ON, Cold-start, Self-test, and menu functions. OFF button controls unit off, fault clearance, and menu functions. Alarm/Enter button control audible alarm state and menu confirmation.
Alarm Cancel Operation	Power-fail alarm can be silenced using alarm-cancel button
Audible Alarm	Audible alarm indicates power-failure, overload and low-battery conditions
LED Indicators	2 LEDs indicate AC output status (Green); UPS fault (Solid Red)/ UPS abnormal conditions (Flashing Red).
SURGE / NOISE SUPPRESSION	
EMI / RFI AC Noise Suppression	Yes
AC Suppression Joule Rating	540
AC Suppression Response Time	Instantaneous
PHYSICAL	
Primary Form Factor	Rackmount; Tower
Rack Height	1U
Cooling Method	Fan
Included Mounting Accessory Description	Included mounting brackets provide front-rail installation in 2 or 4 post racks, plus upright tower configurations
Installation Form Factors Supported with Included Accessories	2 post 19 inch rackmount; 2 post front mount; 4 post 19 inch rackmount; Tower
Maximum Device Depth (cm)	50.90
Maximum Device Depth (in.)	20.04
Maximum Device Depth (mm)	509
Minimum Required Rack Depth (cm)	63.50
Minimum Required Rack Depth (inches)	25
Primary UPS Depth (mm)	509
Primary UPS Height (mm)	44
Primary UPS Width (mm)	440
UPS Housing Material	Steel
UPS Power Module Weight (kg)	10.20
UPS Power Module Weight (lbs.)	22.49
Unit Weight (lbs.)	37.037
Unit Weight (kg)	16.80
ENVIRONMENTAL	
Operating Temperature Range	32° to 104°F (0° to 40°C)

Storage Temperature Range	5° to 122°F (-15° to 50°C)
Relative Humidity	0 to 95%, non-condensing
AC Mode BTU / Hr. (Full Load)	48
AC Mode Efficiency Rating (100% Load)	98%
AC Economy Mode Efficiency Rating (100% Load)	0.98
Operating Elevation	0-3280 ft. (0-1000 m)
Audible Noise	40 dBA maximum, front side 1m
COMMUNICATIONS	
Network Management Cards	WEBCARDLXE
Network Monitoring Port Description	Supports detailed monitoring of UPS and site power conditions
PowerAlert Software	For local monitoring via the UPS's built-in communication ports, download PowerAlert software at https://tripplite.eaton.com/products/power-alert
Communications Cable	USB and DB9 cabling included
WatchDog Compatibility	Supports Watchdog application, OS and hard-reboot restart options for remote applications
Network Management Card Description	Network management card optional
Communications Interface	(1) DB9 Serial; (1) EPO (emergency power off); (1) USB (HID enabled)
Emergency Power Off (EPO)/Remote On-Off (ROO)	Yes
Emergency Power Off/Remote On-Off Details	Phoenix-style connection supports Emergency Power Off and Remote ON/OFF functions.
LINE / BATTERY TRANSFER	
Transfer Time	6-8 ms typical (< 10 ms max)
Low Voltage Transfer to Battery Power (Setpoint)	100V: 80VAC +/- 5% (HI sensitivity), 70VAC +/- 5%, (LO sensitivity), @120V: 89VAC +/- 5% (HI sensitivity), 70VAC+/- 5% (LO sensitivity), @127V: 93VAC+/- 5%, (HI sensitivity), 70VAC+/- 5%, (LO sensitivity)
High Voltage Transfer to Battery Power (Setpoint)	162 VAC (120VAC/127VAC INPUT), 139 VAC (100VAC INPUT) +/- 5%
FEATURES & SPECIFICATIONS	
Cold Start (Startup in Battery Mode During a Power Failure)	Cold-start operation supported
High Availability UPS Features	Auto Probe Monitoring (requires WEBCARDLXE); Automatic Voltage Regulation (AVR); Hot swappable batteries; Remote management; Surge/noise protection
Grounding Details	Back panel grounding lug
APPLICATIONS	
UPS Applications	High-End Desktop/Small Network; Retail/Point of Sale; Hospitality
STANDARDS & COMPLIANCE	

Product Certifications	CSA (Canada); UL 1778
Product Compliance	ENERGY STAR Qualified; FCC Part 15 Class B (USA)
WARRANTY & SUPPORT	
Product Warranty Period (Worldwide)	2-year warranty, 3 year with registration. Note: Registration is required for 3-year warranty.
Extended Warranties	1-year, 2-year, and 3-year extensions available
Connected Equipment Insurance (U.S., Canada & Puerto Rico)	$250,000 Ultimate Lifetime Insurance

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