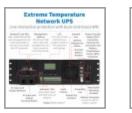


120VAC 24VDC 1500VA 1200W Extreme Temperature Network UPS for Industrial and Traffic Networks, 3U, Hardwire

MODEL NUMBER: SMART1524ET







Wide Operating



Line-interactive UPS with buck-and-boost AVR offers network-grade power protection in extreme temperatures from -40 $^{\circ}$ C to 80 $^{\circ}$ C.

Features

1.5kVA/1.2kW/120V Battery Backup for Applications in Low- and High-Temperature Extremes

This SmartPro® line-interactive SMART1524ET UPS system with hardwire AC input/output offers a wide operating temperature range and provides constant and reliable backup power to critical equipment in harsh environments, including outdoor and industrial equipment. It prevents surges, spikes, overvoltage, undervoltage and blackouts from damaging equipment, destroying data and contributing to costly downtime.

Ideal for Running Networking, Security or Traffic Equipment in -40°C to 80°C Temperatures The SMART1524ET is ideal protection for a wide variety of industry-specific IT, communications, edge computing, security, surveillance, traffic signage and traffic camera equipment in remote locations where temperatures are typically within -40°C and 55°C (for max output), -40°C and 75°C (for up to 1200W output) or -40°C and 80°C (for up to 1000W output). Internal circuitry is covered with a conformal coating that protects against extreme temperatures. Applications range from oil fields, offshore oil rigs and other industrial locations to remote security and military applications to traffic-related setups involving signals and cameras.

Reliable, Expandable Battery Backup Keeps You Operational Through Power Outages Backup support allows you to safely maintain the operation of critical traffic/industrial equipment and other applications requiring reliable extended UPS runtime in demanding environments. A battery connector kit with wireable contact pins lets you connect your own 24V battery banks up to 200Ah (batteries and cables not included). A temperature sensor monitors the battery terminals and customizes charging to optimum levels to extend the lifespan of the connected batteries.

Optional WEBCARDLXMINI Network Interface Offers 24/7 Remote Access for Monitoring and Control

The Java-free HTML5-based WEBCARDLXMINI (sold separately) enables full remote access for site power and UPS status monitoring, configuration, control and email notifications via secure web browser, SNMP, telnet or SSH. It supports 10/100 Mbps auto-sensing for optimum communication with an Ethernet network. Automated alerts help prevent accidental overloads, power loss and downtime.

WEBCARDLXMINI allows you to use the Auto Probe feature, which can prevent costly service calls by automatically rebooting non-responsive network devices. Note: WEBCARDLXMINI has a temperature range of 0°C to 70°C, as measured inside the UPS housing.

Built-in Input/Output Dry Contacts and 24V DC Temperature-Controlled Fan Power Outlet Six sets of output dry contacts support Normally Open (NO) or Normally Closed (NC) signaling of userconfigurable UPS conditions, such as On Battery, Low Battery or UPS Fault to other integrated devices. One set of input dry contacts supports the connection of one user-supplied contact-closure sensor for

Highlights

- Recommended for remote locations where temperatures range within -40°C and 80°C
- Protects equipment against blackouts, brownouts, overvoltages, surges and line noise
- Keeps power running during prolonged outages to allow time for safe system shutdown
- Maintains continuous 120V nominal output during brownouts and overvoltages
- Optional WEBCARDLXMINI network interface supports Auto Probe feature

Applications

- Traffic signal/camera
- Remote security, network and telecommunications equipment
- Military and industrial
- Oil field and offshore oil rig
- Wind power
- Network equipment closets located at the base of a cell phone tower

Package Includes

- SMART1524ET Extreme Temperature Network UPS
- External battery connection kit
- Battery temperature sensor cable
- USB cable
- External fan power adapter cable
- (2) AC hardwire strain reliefs



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remote notification via WEBCARDLXMINI and local notification via front-panel LCD. A temperaturecontrolled 24V DC output power jack supports optional user-supplied fan installation to control overtemperature conditions in equipment enclosures.

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 and overvoltages. The SMART1524ET can correct brownouts as low as 88V and overvoltages as high as 152V with user-configurable buck-and-boost settings, all 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 >95% efficiency rating reduces BTU emissions, energy consumption and, ultimately, your energy costs. Intuitive Front-Panel Interface for Convenient Monitoring

Front-panel LEDs report operating mode (green), alarm (yellow) and fault (red). The LCD screen with select and scroll buttons offers a wide variety of UPS status and site power information, control options, UPS configuration settings and event logs.

Advanced Communications Ports Allow for Automatic Saves and Shutdowns

RS-232 and HID-compliant USB ports connect to a computer running Tripp Lite's free downloadable PowerAlert® software to enable a safe, automatic system shutdown in case of a prolonged power failure. **Versatile Installation Options**

Hardware is included for mounting the SMART1524ET in 3U of space in an EIA-standard 19-inch 2-post or 4-post rack or on a flat desktop surface. The reduced-depth housing requires less than 10 inches of equipment rack depth for convenient two-point installation.

Specifications

OVERVIEW		
UPC Code	037332241214	
UPS Type	Line-Interactive	
INPUT		
Rated input current (Maximum Load)	22A	
Nominal Input Voltage(s) Supported	120V AC	
UPS Input Connection Type	Hardwire	
UPS Input Connection Description	Protected Line, Neutral and Ground hardwire input terminals; Includes strain relief	
Input Circuit Breakers	30A breaker	
Recommended Electrical Service	120V AC	
Input Phase	Single-Phase	
OUTPUT		
Output Volt Amp Capacity (VA)	1500	
Output kVA Capacity (kVA)	1.5	
Output Watt Capacity (Watts)	1200	
Output kW Capacity (kW)	1.2	

- (8) M4 screws
- (4) M6 screws
- (2) Rack-mounting brackets
- Instruction sheet
- Owner's manual



Maximum output capacity is temperature dependent: 1600W (-40 to 55° C) / 1200W (55 to 75° C) and 1000W (75 to 80° C)
0.8
50 / 60 Hz
120V (-14% / +8%) Factory setting, adjustable
120V (±4%)
Protected Line, Neutral and Ground hardwire output terminals; Includes strain relief
30A breaker
Pure Sine Wave
Pure Sine wave
120V
Hardwire
No
Supports 1500W (54 / 113 min), 1200W (68 /145 min), 900W (101 / 235 min), 750W (113 / 285 min), 600W (145 / 350 min), 450W (235 / 520 min) with user-supplied 24V (100AH / 200AH) temperature-appropriate battery system; See manual for more information
Supports extended-run inverter applications; Inverter-mode efficiency: 87% full load / 87% half load; Inverter system consumes 25 watts with no output load
Yes
Requires user-supplied 24V lead-acid battery bank with temperature ratings appropriate for the intended application Supports 24V 200AH maximum; Includes installable Anderson PA75 compatible DC connector; Battery cabling and battery fuses are user-supplied (See manual for wiring diagram and recommended wiring gauge and fuse ratings)
24V DC
Temperature compensated 2/4/6/8/10A selectable charging system; Battery temperature sensor cable included
Corrects brownouts and overvoltages from 88 to 152V to 120V nominal (factory default)
Overvoltages from 128 to 152V are reduced by 20% (default, adjustable from 120 to 144V)
Undervoltages from 88 to 102V are boosted by 8% (default, adjustable from 88 to 120V)
ITROLS
Four line text-based front panel LCD provides full access to UPS status, alarms, faults, events, settings and control options
All three front-panel circuit breakers serve as power switches required to energize the UPS (DC INPUT, AC INPUT, AC OUTPUT); Three additional switches below the LCD provide SCROLL, ESCAPE and ENTER functions
Audible alarm reports Battery mode operation, Battery low status, Overload and UPS Fault conditions



SURGE / NOISE SUPPRESSION		
UPS AC Suppression Joule Rating	474	
EMI / RFI AC Noise Suppression	Yes	
PHYSICAL		
Cooling Method	High speed user-replaceable fan with dust filter	
Included Mounting Accessory Description	Set of two rackmount brackets support installation in 2 or 4 post racks	
Installation Form Factors Supported with Included Accessories	2 post 19 inch rackmount; 4 post 19 inch rackmount	
Maximum Device Depth (cm)	24.00	
Maximum Device Depth (in.)	9.450	
Maximum Device Depth (mm)	240	
Minimum Required Rack Depth (cm)	24.00	
Minimum Required Rack Depth (inches)	9.450	
Primary Form Factor	Rackmount	
Primary UPS Depth (mm)	240	
Primary UPS Height (mm)	133	
Primary UPS Width (mm)	400	
Rack Height	3U	
Shipping Dimensions (hwd / in.)	9.76 x 23.23 x 15.55	
Shipping Weight (kg)	14.79	
UPS Housing Material	Steel	
UPS Power Module Dimensions (hwd, in.)	5.24 x 15.750 x 9.45	
UPS Power Module Weight (kg)	14.70	
UPS Power Module Weight (lbs.)	32.41	
ENVIRONMENTAL		
Operating Temperature Range	-40 to 80° C / -40 to 176° F	
Storage Temperature Range	-40 to 80° C / -40 to 176° F	
Relative Humidity	Up to 95% non-condensing	
AC Mode BTU / Hr. (Full Load)	266	
AC Mode Efficiency Rating (100% Load)	>95%	
Operating Elevation (ft.)	Up to 3300 feet	
Audible Noise	52.4 dB maximum, front-side 1 meter	



Up to 1000m		
<a class="productLink" href="//www.tripplite.com/network-interface-card-for-select-tripp-lite-ups-
systems~WEBCARDLXMINI">WEBCARDLXMINI		
WEBCARDLXMINI network management card option supports operation from 0C to 70C as measured inside the UPS; Built-in USB and Serial ports support UPS configuration via Windows Hyperterminal session		
1 set of input dry contacts generate an alarm of configurable input conditions when pins 1&2 are shorted; Rating: 300VDC/12A; Wiring Gauge: Up to 12AWG		
6 sets of output dry contacts support normally-open or normally-closed signaling of configurable UPS conditions; Rating: 300VDC/12A; Wiring Gauge: Up to 12AWG		
DB9 Serial; Slot for SNMP/Web interface; USB		
UPS mode: 10ms (typical) / 12ms (max); Generator mode: 20ms (typical) / 22ms (max)		
88V (default, adjustable from 88 to 120V)		
152V (default, adjustable from 120 to 152V)		
SPECIAL FEATURES		
Grounding lug connector provides a permanent ground connection for the UPS		
Yes		
Automatic Voltage Regulation (AVR); Expandable battery backup; Sine wave output; Surge/noise protection		
STANDARDS & COMPLIANCE		
Tested to CSA (Canada); Tested to NOM (Mexico); Tested to UL1778 (USA)		
UL1778:2014 (5th Ed) R10.17; CLASS A; 47 CFR FCC PART 15 SUBPART B:2017; ICES-003:2017; CAN/CSA- C22.2 No. 107.3-14 (3rd Ed)+GI1; Series Number: AG-88E6		
2-year warranty, 3 year with registration. Note: <a <br="" class="insuranceLink">href="//www.tripplite.com/support/product-warranty-registration">Registration is required for 3-year warranty.		
\$250,000 Ultimate Lifetime Insurance		

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