Product brochure

TRIPP LITE SERIES



Eaton's Tripp Lite series SmartPro® extreme temperature network UPS systems & batteries, SmartRack® NEMA3R rack enclosures

Power solutions designed for extreme temperatures

Unlike indoor network environments, the temperature in outdoor and remote network environments can fluctuate dramatically. Eaton Tripp Lite series extreme temperature network UPS systems and batteries are rated for operation in a wide range of temperatures, providing complete power protection in industrial, outdoor and transportation environments.

These TAA-compliant, pure sine wave UPS systems provide safe and reliable power to network equipment in traffic signals, parking ramp metering, oil fields and off-shore oil rigs, security systems, government and military facilities, tolling systems, railroad crossings, network closets at cell tower bases and other extremely hot or cold applications.

RAPID DEPLOYMENT

- All connections and controls are on the same side to provide ease of installation, use and maintenance.
- UPS external battery connectors accommodate a range of Eaton Tripp Lite series extreme temperature battery solutions. Multiple Ah capacities are available to meet the varying runtime and fitment needs for outdoor enclosures.
- Eaton Tripp Lite series SmartRack NEMA 3R racks and accessories offer the best protection for sensitive electronics that need to be stored in outdoor environments. Racks are available in various heights and colors.

ROBUST PERFORMANCE

- Line-interactive technology ensures continuous operation through environmental and power quality issues.
- Built-in thermal management extends battery life and lowers maintenance costs.
- Pure sine wave output in both AC and battery modes offers continuous operation in traffic management systems, telecom edge or surveillance equipment applications.

DURABLE CONSTRUCTION

- UPS and extreme temperature battery solutions provide reliable power protection in temperatures ranging from -40°F to +176°F (-40°C to +80°C).
- NEMA 3R-rated enclosures protect equipment against the ingress of water, solid foreign objects and ice forming on the outside of the enclosure.

COMPREHENSIVE MANAGEMENT AND MAINTENANCE

- LCD control panel offers a wide variety of UPS status and site power information, control options, UPS configuration settings and event logs.
- · Remote management reduces on-site response requests.
- Dry contacts allow industrial control management.

PRODUCT SUPPORT

• Eaton provides free product support via phone, email or chat. If you have a question or need to find a replacement battery, Eaton can help.



Feature focus



Front-Panel LCD

Network Card Slot Install a WEBCARDLXMINI (sold separately) for remote monitoring and control.

3 Indicator LEDs

5

4 Battery Connector

Output Dry Contacts Set up customizable status alerts with six sets

of dry output contacts.

Connect a Tripp Lite by Eaton extreme temperature battery (sold separately) or a user-supplied 24V or 48V DC battery system. +

5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 2

Management Options

Configure the UPS via RS-232/USB ports and a connected computer running Windows[®] HyperTerminal.



7 Removable Mounting Brackets

8 Environmental Connections

Connect a user-supplied external fan and a battery temperature sensor cable.

NEMA 3R Enclosures

(x16) Tripp Lite by Eaton models protect 6U-12U of equipment.



Wired series battery system for 24V UPS

Connecting with a wired series of batteries increases the DC voltage:



Connecting with a series-parallel battery configuration increases the

Wired series-parallel battery system for 48V UPS



SPECIFICATIONS

Model	VA/ Watts*	Input/Output Voltage	Supported Battery System	Input/Output Connection	Operating Temperature	Rack Size	Dimensions (HxWxD)	Unit Weight
SMART1524ET	2000/1600	120V	24V (User-supplied)	Hardwire	-40°F to +176°F (-40°C to +80°C)	3U	5.2 x 15.8 x 9.5 in. (13.2 x 40.1 x 24.1 cm)	32.4 lb. (14.7 kg)
SMART1548ET	2000/1600	120V	48V (User-supplied)	Hardwire	-40°F to +176°F (-40°C to +80°C)	3U	5.2 x 15.8 x 9.5 in. (13 2 x 40 1 x 24 1 cm)	32.4 lb.

Note:

1. UPS unit comes with ANDERSON PA75 DC Connection kit

2. Battery temparature sensor cable protects the battery system from overcharging in high-temp environments.

* Each UPS can provide the below output capacity based on ambient operating temperatures shown below:

Output capacity: 2000VA/1600W	Output capacity: 1500VA/1200W	Output capacity: 1200VA/1000W
Ambient operating temperature: -40°C to +55°C	Ambient operating temperature: 55°C to 75°C	Ambient operating temperature: 75°C to 80°C

Extreme Temperature Batteries (sold separately)

Model	Ampere Hour Rate	DC Voltage	Supported Battery	Input/Output Connection	Operating Temperature	Rack Size	Dimensions (HxWxD)	Unit Weight
RBC12V9ET	8.5Ah	12V	Connect multiple	T2	-40°F to +167°F (-40°C to +75°C)	-	3.88 x 5.94 x 2.55 in. (9.9 x 15.1 x 6.5 cm)	5.77 lb. (2.6 kg)
RBC12V20ET	20Ah	12V	batteries of the same AH in series/parallel to match UPS system voltage and application	I1 (M5 bolt)	-40°F to +167°F (-40°C to +75°C)	-	6.5 x 7.12 x 2.99 in. (16.5 x 18.1 x 7.6 cm)	14 lb. (6.4 kg)
RBC12V55ET	55Ah	12V		I2 (M6 bolt)	-40°F to +167°F (-40°C to +75°C)	-	8.12 x 8.98 x 5.45 in. (20.6 x 22.8 x 13.8 cm)	39.45 lb. (17.9 kg)
RBC12V100ET	100Ah	12V	(Max 200AH per UPS)	I2 (M6 bolt)	-40°F to +167°F (-40°C to +75°C)	-	8.41 x 12.15 x 6.65 in. (21.4 x 30.9 x 16.9 cm)	66.56 lb. (30.2 kg)

Accessories (User supplied)

SMART1524ET - Connecting the Batteries to UPS recommended battery cable gauges are 6 AWG with a maximum recommended length of 6.56 ft. / 2 m. SMART1548ET - Connecting the Batteries to UPS recommended battery cable gauges are 8 AWG with a maximum recommended length of 6.56 ft. / 2 m. SMART1524ET - Requires a 24V 150A rated fuse bank. Recommended DC fusing should be installed 18 in. / 0.45 m from the battery system's positive connection wire to the UPS. SMART1548ET - Requires a 48V 70A rated fuse bank. Recommended DC fusing should be installed 18 in. / 0.45 m from the battery system's positive connection wire to the UPS.

NEMA 3R Outdoor Enclosures (Sold Separately)

Model	Cabinet Type	Fan Voltage	Equipment Mount	Input/Output Connection	Equipment Depth (Max)	Rack Size	Dimensions (HxWxD)	Cabinet Weight
SRN3RG12US	NEMA 3R	120V	Front	NEMA 5-15P	30 in. (76.2 cm)	12U	28.49 x 25.17 x 32.13 in. (72.4 x 63.9 x 81.6 cm)	146.44 lb. (66.4 kg)
SRN3RG12UHD	NEMA 3R	120V	Side	NEMA 5-15P	34 in. (86.4 cm)	12U	28.65 x 26.06 x 36.16 in. (72.7 x 66.2 x 91.8 cm)	216.84 lb. (98.4 kg)
SRN3RG18UHD	NEMA 3R	120V	Side	NEMA 5-15P	34 in. (86.4 cm)	18U	40.32 x 26.91 x 36.16 in. (102.4 x 68.4 x 91.8 cm)	259.55 lb. (117.7 kg)

EATON TRIPP LITE SERIES EXTREME TEMP BATTERY RUNTIME CHART

SMART1524ET (24V)		Configuration: 2x RBC12V100ET wired in a series configuration for a 24V 100Ah battery system.	Configuration: 4x RBC12V100ET wired in a series- parallel configuration for 24V 200Ah battery system.
	Operating Temp Max Wattage Output	Load (Watts)	Backup Time @ 24VDC 100Ah (min)	Backup Time @ 24VDC 200Ah (min)
		150	800	1680
		300	350	800
		450	235	520
	75°C to 80°C	600	145	350
		750	113	285
		900	101	235
SMART1524ET +		1000	91	212
RBC12V100ET	55°C to 75°C	1050	86	183
	33 C to 73 C	1200	68	145
		1350	60	126
		1400	57	122
	-40°C to +55°C	1450	55	117
		1500	54	113
		1600	50	106
			Configuration: 2x RBC12V55ET wired in series parallel configuration for a 24V 55Ah battery system	Configuration: 4x RBC12V55ET wired in series- parallel configuration for a 24V 110Ah battery system
	Operating Temp Max Wattage Output	Load (Watts)	Backup Time @ 24VDC 55Ah (min)	Backup Time @ 24VDC 110Ah (min)
		150	299	599
		300	150	301
		450	106	211
	75°C to 80°C	600	79	158
		750	63	127
		900	53	106
SMART1524ET +		1000	48	95
RBC12V55ET	550C to 750C	1050	45	91
	55°C to 75°C	1200	40	79
		1350	35	70
		1400	34	68
	-40°C to +55°C	1450	33	66
			22	60
		1500	32	63
		1500	32 30	59

EATON TRIPP LITE SERIES EXTREME TEMP BATTERY RUNTIME CHART

			Configuration: 2x RBC12V20ET wired in series	Configuration: 4x RBC12V20ET wired in series-
			configuration for a 24V 20Ah battery system	parallel configuration for a 24V 40Ah battery system
	Operating Temp Max Wattage Output	Load (Watts)	Backup Time @ 24VDC 20Ah (min)	Backup Time @ 24VDC 40Ah (min)
		150	192	218
		300	96	109
		450	64	77
	75°C to 80°C	600	48	58
		750	38	46
		900	32	38
SMART1524ET +		1000	29	35
KBC12V2UE1	55°C to 75°C	1050	2/	33
		1200	24	29
		1350	21	26
	1000 +	1400	21	25
	-40 C (0 +55 C	1450	20	24
		1600	19	23
		1000	Configuration: 4v DDC12V400ET wired in a carrier	Configuration: 8v DDC12V100ET wired in a carried
SMART1548FT (48V			configuration for a 48V 100Ah battery system	parallel configuration for 48V 200Ab battery system
	Operating Temp Max Wattage Output	Load (Watts)	Backup Time @ 48VDC 100Ah (min)	Backup Time @ 48VDC 200Ah (min)
	- F	160	1581	3161
		320	751	1581
		480	491	1054
	75°C to 80°C	640	331	760
	/3 0 00 00 0	800	268	615
CMADT15/9ET +		960	200	508
RBC12V100ET		1000	212	487
		1120	189	/35
	55°C to 75°C	1200	176	406
		1280	136	335
	40°C to +55°C	1440	120	295
	-40 C (0 + 55 C	1600	120	255
		1000	Configuration: Av DDC12VEEET wired in a cariac	237
			configuration for a 48V 55Ah battery system.	parallel configuration for 48V 110Ah battery system.
	Operating Temp Max Wattage Output	Load (Watts)	Backup Time @ 48VDC 55Ah (min)	Backup Time @ 48VDC 110Ah (min)
		160	561	1123
		320	282	564
		480	198	396
	75°C to 80°C	640	149	297
		800	119	238
SMART1548ET +		960	99	198
RBC12V55ET		1000	95	190
	5500 - 7500	1120	85	170
	55°C to 75°C	1200	79	158
		1280	74	149
	-40°C to +55°C	1440	66	132
		1600	59	119
			Configuration: 4x RBC12V20ET wired in a series configuration for a 48V 20Ah battery system.	Configuration: 8x RBC12V20ET wired in a series- parallel configuration for 48V 40Ah battery system.
	Operating Temp Max Wattage Output	Load (Watts)	Backup Time @ 48VDC 20Ah (min)	Backup Time @ 48VDC 40Ah (min)
		160	204	408
		320	103	205
SMART1548ET + RBC12V20ET		480	72	144
	75°C to 80°C	640	54	108
		800	43	86
		960	36	72
		1000	35	69
	55°C to 75°C	1120	31	62
		1200	29	58
	40%C +- + 55%C	1280	2/	54
	-40 C [0 +55"C	1,440	24	48



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