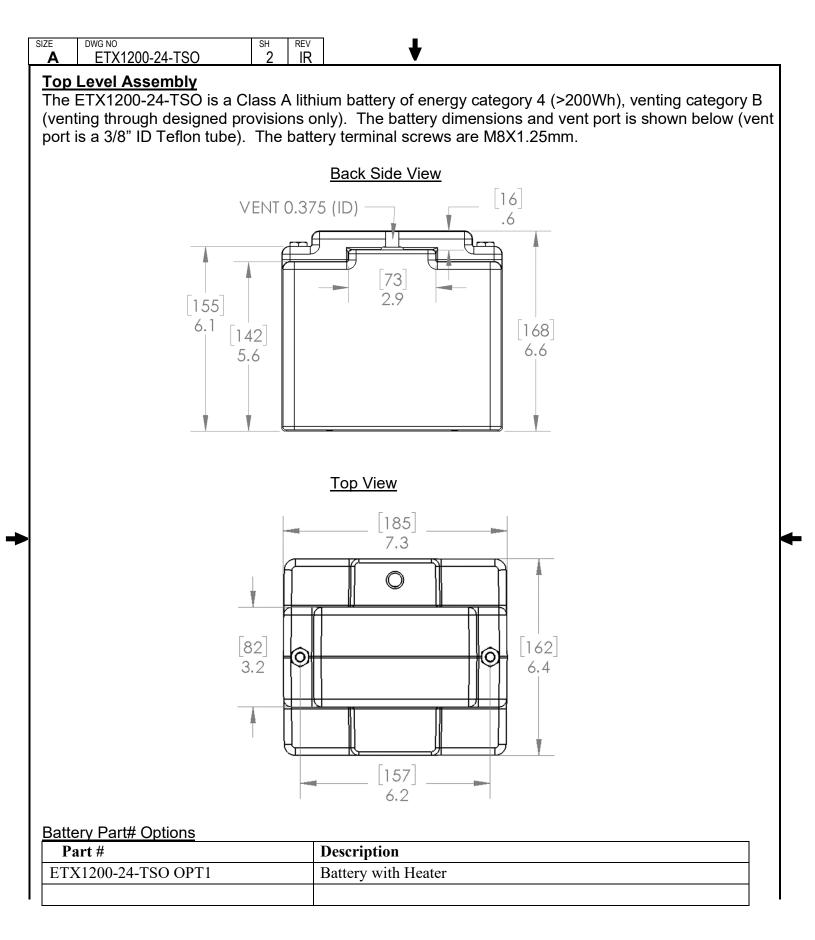


EarthX	Windsor, CO	SIZE	DWG NO	DESC	RIPTION	
DRAWN	KJENKINS	Α	ETX1200-24- TSO	19.4Ah Battery		
ISSUED	R NICOSON	SCALE		SHEET	1	



ISSUED	R NICOSON	SCALE		SHEET	2
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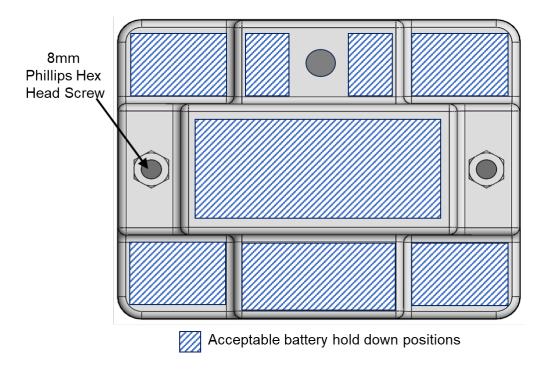
SIZE DWG NO	SH	REV
A ETX1200-24-TSO	3	IR

<u>Notes</u>

- This battery meets the TSO-C179b standards
- This product is manufactured under FAA TSOA quality system requirements.
- Components of this article meet the applicable flammability requirements of §§ 23/25/27/29.853, 23/25/27/29.863, and 25.869.
- The conditions and tests required for TSO approval of this article are minimum performance standards. The article may be installed only according to 14 CFR part 43 or the applicable airworthiness requirements
- Refer to 230407 Installation Manual, and 230408 Instructions for Continued Airworthiness (ICA) manual for installation and maintenance details.

Battery Mounting

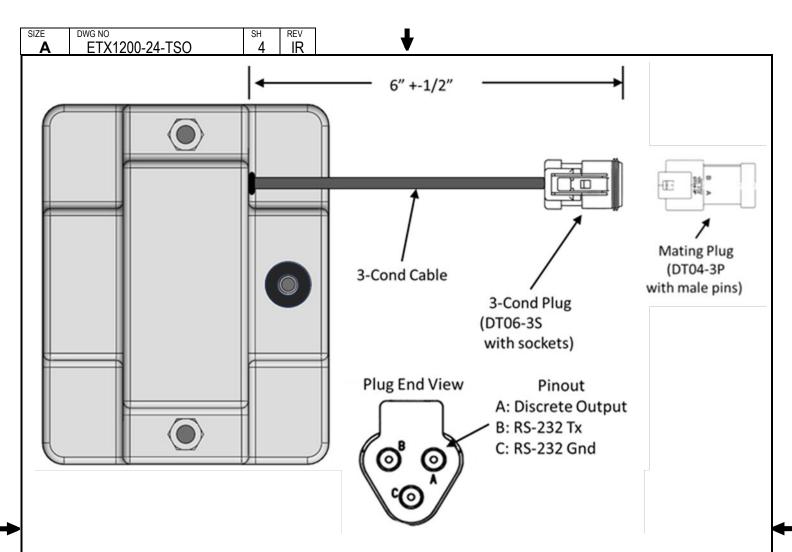
The ETX1200-24-TSO can be mounting in any position. A battery holder or battery box can contact any part of the bottom and sides of the battery, and any area on the top of the battery as indicated in the figure below.



Battery Monitoring Cable

The battery can provide status and fault information via a discrete output and RS-232 output. The connection to the battery is a latching and sealed plug (see the figures below).

ISSUED	R NICOSON	SCALE	SHEET	3



Specifications

Voltage	26.4 V
Capacity (1C, 1hour rate at 23 °C)	19.4Ah @ 1C rate (See below)
Capacity vs Temperature	25 °C = 100%
	$0^{\circ}C = 97\%$
	$-30^{\circ}\text{C} = 95\%$ (19.4Ah at this temperature)
Self-Discharge Rate	<2%/month @ 25°C
Peak Power (Ipp), 23/-18 °C	1200 / 650 amps
Rated Power (Ipr), 23/-18 °C	800 / 400 amps
Max Continuous Discharge Amps	40A
(Discharging 100% of capacity)	
Standard Charge Voltage	27.6 – 28.8 V
Recommended Charger/Maintainer Amps	5 - 20A
Weight	12.4lb (5.6Kg)
Dimensions	7.3in (L) x 6.4in (W) x 6.6in (H)
	185mm(L)x162mm(W)x168mm(H)
Environmental Rating (resistance to water	IP 66 (wash down with a high-pressure
intrusion)	washer)

ISSUED	R NICOSON	SCALE	SHEET	4

SIZE	DWG NOSHREVETX1200-24-TSO5IR	★
	Operating Temperature	-30°C to +60°C (+70°C for 30minutes)
		(-45°C with optional heater)
	Storage Temp	-45 °C to +70 °C
	Short Term Ground Survival Temp	85°C
	Maximum Altitude	50,000 Ft
	Shelf Life	1 year (without charging)
	FAA Standard Order	TSO-C179b
	Design Assurance Level (DAL)	C (major)
	Flammability Rating (case and vent tube)	14CFR 25.853 (a)

TSO Label Info

The TSO label contains the following information:

- Battery Classification: Rechargeable Lithium Battery
- ETX1200-24-TSO {Option} Rev xx
- TSO-C179b-CLASS A-4B
- Serial #:
- Date of Manufacture:
- BMS Part # and Revision:
- Firmware Revision:

Note: the x's in serial number field of the label are as follows, first three characters are year and month (i.e. 18A, where A is January, B is February, etc.) and the last five are a sequential number.

ISSUED	R NICOSON	SCALE	SHEET	5