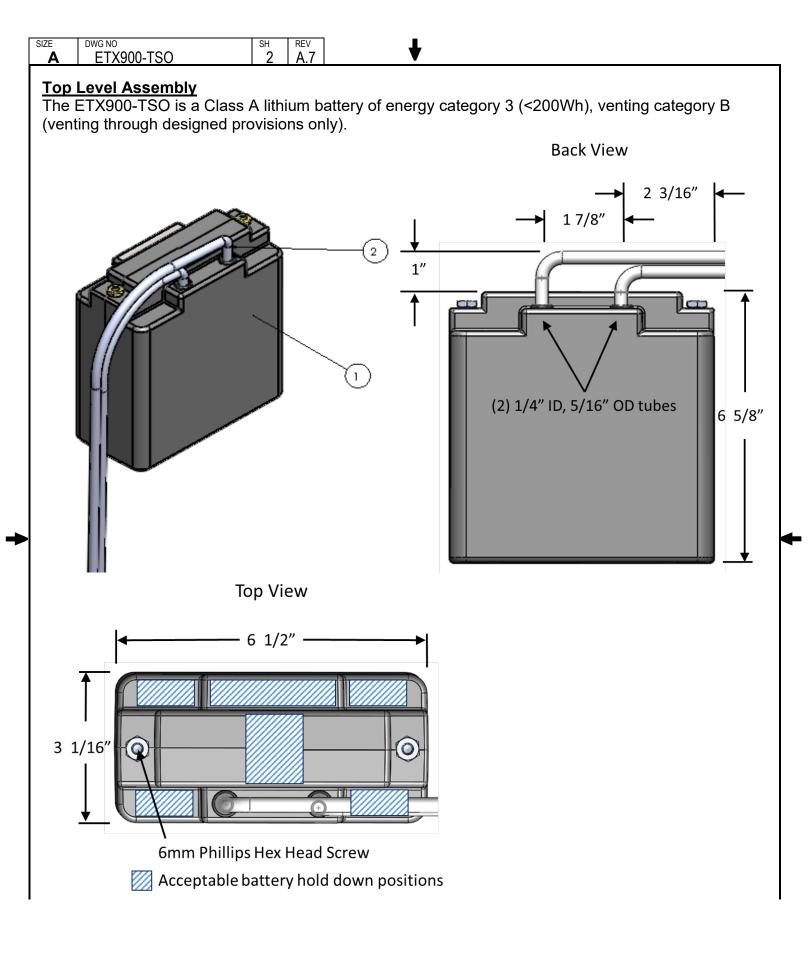
SIZE DWG NO SH A ETX900-TSO 1	REV A.7	₩		
THIRD ANGLE PROJECTION		REVISION BLOCK		
	REV	DESCRIPTION	DATE	APPROVED
	А	Initial Release	4/05/2019	NICOSON
	A.1	BMS to Rev G	4/19/2019	NICOSON
CLICK HERE	A.2	BMS to Rev H	7/2/2019	NICOSON
	A.3	BMS Firmware V10.19C	11/4/2020	NICOSON
TEMPLATE	A.4	BMS Firmware V10.20C, RevH1	10/11/2021	NICOSON
	A.5	BMS Firmware V11.21C, Resistor	5/05/2022	NICOSON
		value change (R2,R3,R15,R17,R22,		
		R31)		
	A.6	BMS PCB Rev I, added heat sink to PCB	3/10/2023	NICOSON
	A.7	BMS Fimware V12.22C	5/21/2023	NICOSON

ETX900-TSO Top Level Assembly Drawing

THIS DOCUMENT SHALL BE REVISED IN ITS ENTIRETY. ALL SHEETS OF THIS DOCUMEN⁻ ARE THE SAME REVISION LEVEL AS INDICATED IN THE REVISION BLOCK. UNLESS SPECIFIED, ELSEWHERE TOLERANCES ARE +-1/16" or +-5%.

EarthX	rthX Windsor, CO		DWG NO	DESC	RIPTION
DRAWN	S NICOSON	Α	ETX900-TSO	Top Level Assemb	ly Drawing
ISSUED	R NICOSON	SCALE		SHEET	1



ISSUED R NICOSON	SCALE	SHEET 2
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S	A A	DWG NO	(900-TSO	^{SH}	REV A.7	↓ ↓	
	Ite	m#	Quantity			Part #	Description
	1		1			ETX900-TSO	15.6 Ah Battery
	2		2 (ship loose)			5670K17	90 Deg Tube Fitting

<u>Notes</u>

- The ETX900-TSO meets the TSO-C179b standards
- This product is manufactured under FAA TSOA quality system requirements.
- Battery ratings are per DO-311b
- Reference documents: 180319 ETX900-TSO Acceptance Test Procedure (ATP)
- Components of this installation meet the applicable flammability requirements of §§ 23/25/27/29.853, 23/25/27/29.863, and 25.869.
- The conditions and test required for TSO approval of this article are minimum performance standards. Those installing this article either on or within a specific type or class of aircraft must determine that the article installation conditions are within the TSO standards. The article may be installed only according to 14 CFR part 43 or the applicable airworthiness requirements
- Refer to documents 180407 Installation & Maintenance Manual (IMM), and 180426 Instructions for Continued Airworthiness (ICA), for installation and limitation details.

Specifications

Voltage	13.2 V
Capacity (1C, 1hour rate at 23 °C)	15.6Ah @ 1C rate (See below)
Capacity vs Temperature	25 °C = 15.6Ah
	$0^{\circ}C = 15.3Ah$
	$-30^{\circ}C = 15.0Ah$
Self-Discharge Rate	<3%/month @ 25°C
Peak Power (Ipp), 23/-18 °C	800 / 390 amps
Rated Power (Ipr), 23/-18 °C	600 / 365 amps
Max Continuous Discharge Amps (30min,	31A
discharging 100% of capacity)	
Standard Charge Voltage	13.9 - 14.6 V
Recommended Charger/Maintainer Amps	.8 - 20A
Max Charge Amps	80A (from aircraft charging system)
Life (Charge cycles)	4000 cycles @ 1C discharge rate, 25°C
	(20% depth of discharge)
	2000 cycles @10C discharge rate, 25°C
	(80% depth of discharge)
Life (Years)	6 Years
Weight	5.4lb
Dimensions	6.5in (L) x 3.1in (W) x 6.6in (H)
	166mm(L)x78mm(W)x168mm(H)
Environmental Rating (resistance to water	IP 66 (wash down with a high-pressure
intrusion)	washer)
Operating Temperature (short term)	-30 °C to +60 °C (+65 °C)

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				,

SIZE A		(900-TSO		REV 4.7		
		Storage & Ground	Surviva	1 Ten	np	-45 °C to +70 °C
		Short Term Ground			1	85 °C (30 minutes)
		Maximum Altitude				25,000 Ft
	Shelf Life					1 year (without charging)
		FAA Standard Orde	er			TSO-C179b
		Design Assurance I	Level (I	DAL))	C (major)
		Flammability Ratin	g (case	and v	vent tube)	14CFR 25.853 (a)

TSO Label Info

The TSO label contains the following information:

- Battery Classification: Rechargeable Lithium Battery
- ETX900-TSO Rev { }
- TSO-C179b-CLASS A-3B
- 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.

Below is the graphic design.



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