External Batteries

TBSI Recording and Stimulation headstages include an internal battery that provides 4 or more hours of use. The current draw of a headstage is based on its configuration (see the table below for a cross reference). Headstages can be configured to use an external battery if you need longer operation time or need to move weight off of the test subjects head. External batteries can also be exchanged while the headstage is attached and in use allowing you to extend the experimental operating time with minimal interruption.

10mAh Battery
- Dimensions: 12 x 11 x 3**
- Weight: 0.6g

40mAh Battery
- Dimensions: 15.3 x 15 x 6**
- Weight: 1.5g

60mAh Battery
- Dimensions: 16.2 x 11 x 6**
- Weight: 1.6g

75mAh Battery
- Dimensions: 20.8 x 11.5 x 4.7**
- Weight: 1.5g

180mAh Battery
- Dimensions: 28 x 20 x 4.5**
- Weight: 4.4g

Wireless Headstage with 24-Hour External Battery

200mAh Battery
- Dimensions: 34 x 11.6 x 6.2**
- Weight: 4.7g

220mAh Battery
- Dimensions: 30 x 25 x 3.8**
- Weight: 5.3g

300mAh Battery
- Dimensions: 40 x 32 x 3.0**
- Weight: 7.8g

500mAh Battery
- Dimensions: 35 x 25 x 5**
- Weight: 10.4g

*Based on typical power usage with a 5, 16 or 32 channel wireless headstage.
**All dimensions provided are in mm.

Headstage Current Draw							
Regular Power Tranmitter							
Headstage	S2	S2WO#	W5	W16	W32	W64	W128
mAh Draw	14	21-61	13	16	16	19	38
High Power Tranmitter							
Headstage	*	*	W5	W16	W32	W64	W128
mAh Draw	*	*	24	29	29	34	67

- 21 mAH draw plus stim amplitude per channel

Charging Time

Most batteries will reach 90% of full capacity within 15-20 minutes of charging. Charging to full capacity may require up to 2 hours.

Battery Cable:

A coiled cable of appropriate length for the animal model in use is provided. Custom lengths can be accommodated upon request.

Battery Charger:

Each wireless recording and stimulation system includes an appropriate charger for the wireless headstage purchased (internal or external battery).

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