

BroadBit Batteries Stand-Alone Cycling Unit (CU.SA v0.1)

The cycling unit developed by BroadBit Batteries is a device which is used for charge and discharge single cell or multiple cells at the same time with wide range of current setting. It gives user permission to choose between different working modes and to set up their own charge, discharge current and cycling times. Additionally, the user can log the data for analysis via a serial USB connection. The detail technical specifications of the device are shown as below.



Technical Specifications

Finishing	<ul style="list-style-type: none"> ▪ Aluminum Frame ▪ Plastic
Size and Weight*	<ul style="list-style-type: none"> ▪ Height: 164 mm ▪ Width: 160 mm ▪ Depth: 181 mm ▪ Weight: 2 kg
User Interface	<ul style="list-style-type: none"> ▪ 16x2 LCD display ▪ Buttons ▪ Knob
Working Voltage	<ul style="list-style-type: none"> ▪ Input Voltage: 7.5V ▪ Max Current: 10A
Working Feature	<ul style="list-style-type: none"> ▪ Charge Mode: CC, CV ▪ Charge Current: 5mA – 10A ▪ Discharge Mode: CC ▪ Discharge Current: 5mA – 10A ▪ Cycle time: User preset
Data logging*	<ul style="list-style-type: none"> ▪ Serial logging via USB port
Working temperature	<ul style="list-style-type: none"> ▪ Room temperature
Battery Support	<ul style="list-style-type: none"> ▪ From coin cell to small battery pack

*: Future versions will be approximately half the volume of the current prototype.

Technical Drawing

