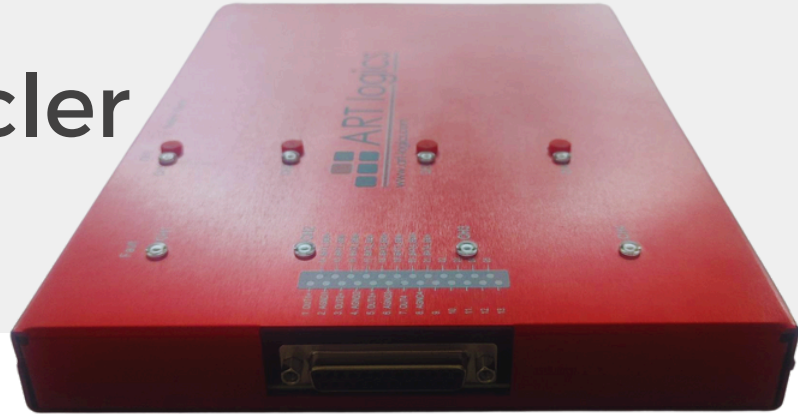


BC-4-10-0.2

4CH Battery Cycler

10V 20mA



OVERVIEW

The **4CH Battery Cycler 10V 20mA** is used to simulate battery charging/discharging with CV/CC/CR modes. This board contains 4 isolated cycler channels, each can be set individually. Available range is -10V to 10V for voltage, and -20mA to 20mA for current.

When a negative current is activated, device will draw current from the battery.

The product supports Ethernet TCP and USB-C communication. 1 or multiple board(s) can be used together according to the requirements (based on how many cyclers are needed).

Working mode and voltage / current can be controlled with the software. The voltage and current for each battery can also be measured with the software with built-in 16 bit ADC.

KEY FEATURES

- 4 channel in total, shares the same ground.
- Extendable number of channels by adding more boards
- Each channel supports CV, CC, CR charge / discharge modes individually.
- Integrated Voltage and current measurements.
- Software built-in calculation of Battery capacity in Ah/Wh.

DIMENSION

L*W*H = 257mm*190mm*240mm

Controllable

· Ethernet TCP and USB Type-C.

output

-10V~10V, or -20mA~20mA
individually

DETAILED SPECIFICATIONS:

All data is measured after calibration.

Voltage operation mode -10V to 10V, Current operation mode -20mA to 20mA

Output Voltage	Value	Nominal	Unit
Range	-10 to +10		V
Total Unadjusted Error (TUE)		0.1	%FSR
Relative Accuracy (INL)		0.02	%FSR
Bipolar Zero Error	-10 to 10		mV
Bipolar Zero Error Temperature Coefficient		1.5	ppm FSR/K
Resolution		16	bits

Output Current	Value	Nominal	Unit
Range	-20 to +20		mA
Total Unadjusted Error (TUE)		0.1	%FSR
Relative Accuracy (INL)		0.2	%FSR
Bipolar Zero Error	-10 to +10		uA
Bipolar Zero Error Temperature Coefficient		0.5	ppm FSR/K
Resolution		16	bits

Input Voltage (DC)	Value	Nominal	Unit
Range	9 to 36		V
Power Supply Rejection Ratio		-65	dB
Isolation Voltage		1500	V

USAGE EXAMPLES

Mainly used to simulate battery's charging / discharging (CC/CV cycle, etc), and calculate the total battery capacity in Ah or Wh.

Can also be used to generate static current from -20 to 20mA.



ENVIRONMENTAL

The Cells Simulation Board is intended for indoor use only but may be used outdoors if installed in a suitable enclosure. Refer to the manual for more information about meeting these specifications.

Operating temperature

-40°C--+55°C

Storage temperature

-40°C--+85°C

Ingress protection (IP code)

None

Operating humidity

10-90% RH non condensing

Storage humidity

5-95% RH non condensing

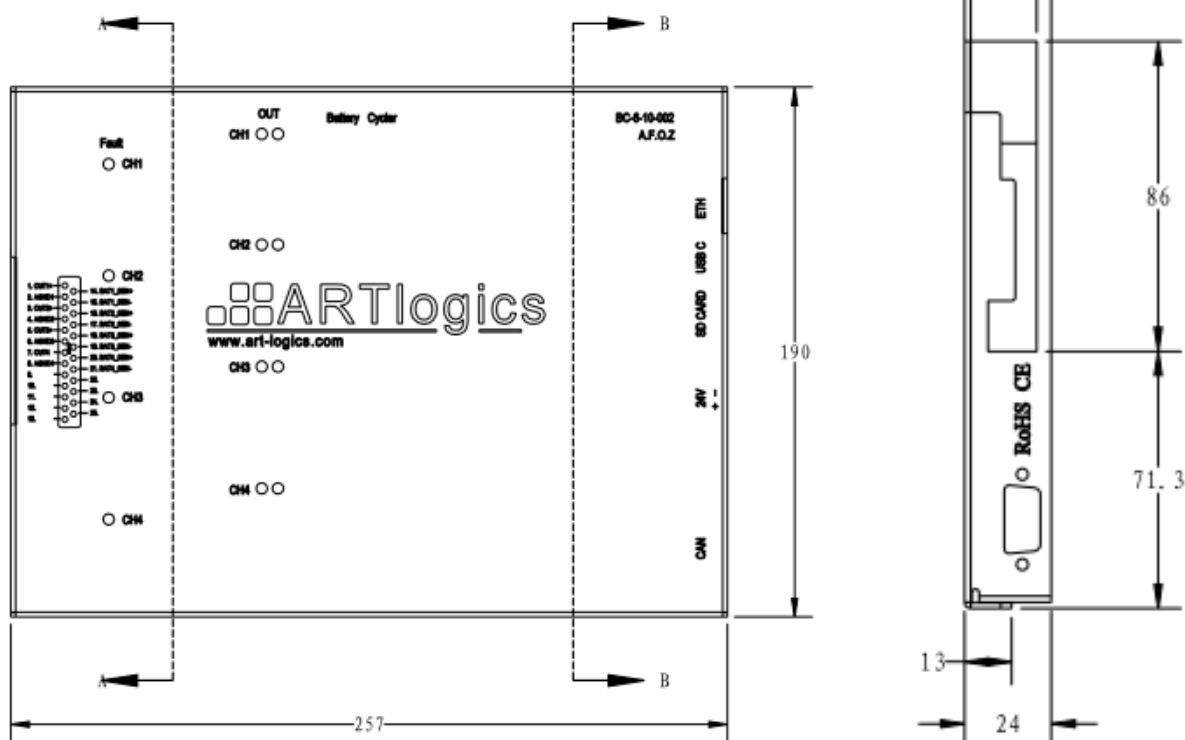
SUPPORT AND SERVICES

Calibration

ART logics measurement hardware is calibrated to ensure measurement accuracy and verify that the device meets its published specifications. To ensure the ongoing accuracy of the measurement hardware, ART logics offers basic or detailed recalibration service.

DIMENSION

L*W*H = 257mm*190mm*240mm



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