

BATTERY CHARGE/DISCHARGE UNIT

- Applications:**
- * Battery Testing
 - * New Battery Development
 - * Current Amplitude
 - * Current in Circuits
 - * Voltammetry

Performance

The model is a low cost battery charge/discharge unit ideal for testing various types of batteries. It is also suitable for the development and evaluation of new batteries. Specialized multi-channel battery charge/discharge systems can easily be formed by combining multiple units of HJ-201B's and multi-channel intermittent recorders. Various sizes of racks are available for this purpose. Sophisticated data analysis is also possible by interfacing the auxiliary outputs of the HJ201B's to a computer system via A/D converters. We can also manufacture charge/discharge systems to meet customers' specialized requirements.

Features

- * Current Ranges: 1A, 100mA, 10mA, 1mA, 100µA
- * Battery Voltage: Discharge = -1V ~ 11V, Charge = 0V ~ 20V
- * Modes: Constant Current discharge, Rest after Discharge, Constant Current Charge, rest after Charge
- * Automatic switching from one mode to another at a preset time or a preset voltage
- * Output terminals fro recording purpose

Specifications

Current

Discharge - Current Ranges: 1A, 100mA, 10mA, 1mA, 100uA

Discharge - Setting: a 5 step rotary switch with a 10 turn vernier dial

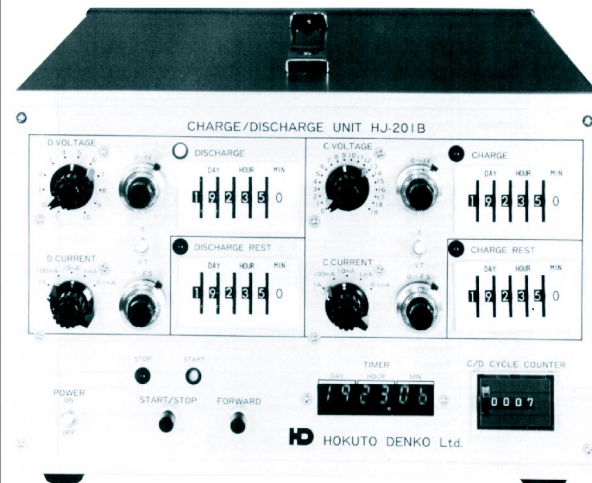
Discharge - Accuracy: < 0.5% full scale

Charge - Current Ranges: 1A, 100mA, 10mA, 1mA, 100uA

Charge - Setting: a 5 step rotary switch with a 10 turn vernier dial

Charge - Accuracy: < 0.5% full scale

Voltage	
Discharge - Range	Minus -1Vto 11V
Discharge - Setting Range	Minus -1, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11
Discharge - Presetting	a 12 step rotaryswitch and a 10 turn vernier dial
Discharge - Accuracy	< 10mV
Charge - Range	0Vto 20V
Charge - Setting Range	0 to 20
Charge - Presetting	a 20 step rotaryswitch and a 10 turn vernier dial
Charge - Accuracy	< 10mV
Timer	
Discharge - Range	0 minute ~ 19 days 23 hours 50 minutes
Discharge - Presetting	6-digit digital thumbwheel switch
Rest after Disch. - Range & Pre.	Same
Charge - Range & Presetting	Same
Rest after Charge - Range & Pre.	Same
Modes	a. Constant Current & Voltage Discharge b. Rest after Discharge c. Constant Current & Voltage Charge d. Rest after Discharge
Switching	T: Automatic switching from one mode to another V, T: Automatic switching from one mode to another
Display	Day, Hour, Minute, Discharge, Discharge Rest, Charge, Charge Rest, Stand-By, Operation C/D Cycle Counter
Output - Current	10V output for every range full scale
Output - Voltage	I/O conversion ratio is switched with a toggle switch. Ratio: 2:1, 1:1, 1:2
Auxiliary Analog Output - Current	10V output for every range; +: Discharge, -: Charge
Auxiliary Analog Output - Voltage	I/O conversion ratio is 2:1
Inputs	I+: Battery + terminal I-: Battery - terminal V+: Battery sensor + terminal V-: Battery
Standard Accessories	Alligator Clips: 1.2meters: Earth Cord: 3 meters
Power Requirement	AC120V, 60Hz
Physical Dimension (WxHxD)	290mm x 195mm x 330mm (WxHxD)
Weight	8.4 kg



N600-HJ201B

Battery Charge/Discharge Unit