72 Lake Street
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BATTERY CHARGE/DISCHARGE UNIT

Model N600-HJ201B

APPLICATIONS

The HJ-201B is a low cost battery charge/discharge unit ideal for testing various types of batteries. It is also suitable for 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

HJ-201B

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SPECIFICATIONS

1. Current	Discharge	Current Ranges Setting Accuracy	1A, 100mA, 10mA, 1mA, 100uA a 5 step rotary switch with a 10 turn vernier dial < 0.5% full scale
	Charge	Current Ranges Setting Accuracy	1A, 100mA, 10mA, 1mA, 100uA a 5 step rotary switch with a 10 turn vernier dial < 0.5% full scale
2. Voltage	Discharge	Range Setting Range Presetting Accuracy	Minus -1V to 11V Minus -1, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11 a 12 step rotary switch and a 10 turn vernier dial < 10mV
	Charge	Range Setting Range Presetting Accuracy	0V to 20V 0 to 20 a 20 step rotary switch and a 10 turn veriner dial < 10mV
3. Timer	Discharge	Range Presetting	0 minute ~ 19 days 23 hours 50 minutes a 6-digit digital thumbwheel switch. Bipassing is possible. Zero setting. A crystal oscillator is utilized.
	Rest after Discharge	Range Presetting	Same Same
	Charge	Range Presetting	Same Same
	Rest after Charge	Range Presetting	Same Same
4. Modes	a. Constant Current Discharge (Before the preset voltage is reached) Constant Voltage Discharge (After the preset voltage is reached)		
	b. Rest after Discharge		
	c. Constant current Charge (Before the preset voltage is reached) Constant Voltage Charge (After the preset voltage is reached)		
	d. Rest after Charge		
5. Switching	T	Automatic switching from one mode to another at a preset time	
	V, T	Automatic switching from one mode to another at a preset time OR a preset voltage, whichever is reached first.	
6. Display	DAY, HOUR, MINUTE		All in LED digital display
	DISCHARGE, DISCHARGE REST, CHARGE, CHARGE REST		LED lamps
	STAND-BY, OPERATION		LED lamps
	C/D CYCLE COUNTER		A 4-digit electromagnetic counter Starts counting at the first charge
7. Outputs (to a recorder)	Current	10V output for every range full scale; +:Discharge, -:Charge	
	Voltage	I/O conversion ratio is switched with a toggle switch. Ratio: 2:1 (e.g., 20V is converted to 10V) 1:1 (e.g., 10V is converted to 10V) 1:2 (e.g., 5V is converted to 10V)	
8. Auxiliary Analog Out to Computer	Current	10V output for every range full scale; +:Discharge, -:Charge	
	Voltage	I/O conversion ratio is 2:1. (e.g., 20V is converted to 10V)	
9. Inputs	Battery connecting terminals:		I+: Battery + terminal I-: Battery - terminal V+: Battery sensor + terminal V-: Battery
10. Standard Accessories	To-battery-lead-wire (alligator clips, 1.2m) ; Earth Cord (3m)		
11. Power Requirements	AC 120V ±10%; 50/60 Hz; 45 VA		
12. Dimension & Weights	11.5(W) x 7.7(H)x 13.0(D)in./290(W) x 195(H) x 330(D)mm; 18.5lb/8.4kg		

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