

# Energy to Power up

## **Chhabi** Battery Discharger /DC Load Bank



### **You need a load test solution you can rely on**

Today, increasing demand for the portable DC power has risen due to improvements in battery and distributed power requirements at remote places. Due to which more and more portable DC powered products have become available for many diverse applications.

Rechargeable batteries appear in all types of products from analytical electronic equipment, power tools to distributed DC power requirements at remote places, especially for telecom type applications.

This has risen the demand for the DC Load for testing of the DC Power systems to its specifications and to comply with the IS and IEEE standards system acceptance tests.

With decades of experience in the acceptance testing and with interaction with various national and International consultants Chhabi has designed various rated DC load for testing various types of DC Power supplies.

When efficient power generation testing and system proving are vital, when backup systems must be fully tested to ensure they meet original design criteria - you need a stable, continuous and variable load to imitate real loads, in real time.



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**Chhabi Electricals Private Limited**

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# Standard Rating for Battery Dis-Charger

## For 24V Battery Discharger

Voltage (V)	Current Rating (A)	Steps (A)	Switching	Cooling
24V	10A	1+2+2+5	MCB	Natural
24V	20A	1+2+2+5+10	MCB	Natural
24V	50A	1+2+2+5+10+10+20	MCB	Natural
24V	100A	1+2+2+5+10+10+20+50	MCB	Natural
24V	150A	1+2+2+5+10+10+20+(50 X 2)	MCB	Forced
24V	200A	1+2+2+5+10+10+20+(50 X 3)	MCB	Forced
24V	250A	1+2+2+5+10+10+20+(50 X 4)	MCB	Forced
24V	300A	1+2+2+5+10+10+20+(50 X 5)	MCB	Forced
24V	350A	1+2+2+5+10+10+20+(50 X 6)	MCB	Forced
24V	400A	1+2+2+5+10+10+20+(50 X 7)	MCB	Forced
24V	500A	1+2+2+5+10+10+20+(50 X 9)	MCB	Forced
24V	600A	1+2+2+5+10+10+20+(50 X 11)	MCB	Forced

## For 48V Battery Discharger

Voltage (V)	Current Rating (A)	Steps (A)	Switching	Cooling
48V	10A	1+2+2+5	Rotary	Natural
48V	20A	1+2+2+5+10	Rotary	Natural
48V	50A	1+2+2+5+10+10+20	Rotary	Natural
48V	100A	1+2+2+5+10+10+20+50	Rotary	Forced
48V	150A	1+2+2+5+10+10+20+(50 X 2)	Rotary	Forced
48V	200A	1+2+2+5+10+10+20+(50 X 3)	Rotary	Forced
48V	250A	1+2+2+5+10+10+20+(50 X 4)	Rotary	Forced
48V	300A	1+2+2+5+10+10+20+(50 X 5)	Rotary	Forced
48V	350A	1+2+2+5+10+10+20+(50 X 6)	Rotary	Forced
48V	400A	1+2+2+5+10+10+20+(50 X 7)	Rotary	Forced
48V	500A	1+2+2+5+10+10+20+(50 X 9)	Rotary	Forced
48V	600A	1+2+2+5+10+10+20+(50 X 11)	Rotary	Forced

## For 110V Battery Discharger

Voltage (V)	Current Rating (A)	Steps (A)	Switching	Cooling
110V	10A	1+2+2+5	Rotary	Natural
110V	20A	1+2+2+5+10	Rotary	Natural
110V	50A	1+2+2+5+10+10+20	Rotary	Forced
110V	100A	1+2+2+5+10+10+20+50	Rotary	Forced
110V	150A	1+2+2+5+10+10+20+(50 X 2)	Rotary	Forced
110V	200A	1+2+2+5+10+10+20+(50 X 3)	Rotary	Forced
110V	250A	1+2+2+5+10+10+20+(50 X 4)	Rotary	Forced
110V	300A	1+2+2+5+10+10+20+(50 X 5)	Rotary	Forced
110V	350A	1+2+2+5+10+10+20+(50 X 6)	Rotary	Forced
110V	400A	1+2+2+5+10+10+20+(50 X 7)	Rotary	Forced
110V	500A	1+2+2+5+10+10+20+(50 X 9)	Rotary	Forced
110V	600A	1+2+2+5+10+10+20+(50 X 11)	Rotary	Forced

## For 220V Battery Discharger

Voltage (V)	Current Rating (A)	Steps (A)	Switching	Cooling
220V	10A	1+2+2+5	Rotary	Natural
220V	20A	1+2+2+5+10	Rotary	Forced
220V	50A	1+2+2+5+10+10+20	Rotary	Forced
220V	100A	1+2+2+5+10+10+20+50	Rotary	Forced
220V	150A	1+2+2+5+10+10+20+(50 X 2)	Rotary	Forced
220V	200A	1+2+2+5+10+10+20+(50 X 3)	Rotary	Forced
220V	250A	1+2+2+5+10+10+20+(50 X 4)	Rotary	Forced
220V	300A	1+2+2+5+10+10+20+(50 X 5)	Rotary	Forced
220V	350A	1+2+2+5+10+10+20+(50 X 6)	Rotary	Forced
220V	400A	1+2+2+5+10+10+20+(50 X 7)	Rotary	Forced
220V	500A	1+2+2+5+10+10+20+(50 X 9)	Rotary	Forced
220V	600A	1+2+2+5+10+10+20+(50 X 11)	Rotary	Forced

Material of Resistance : Fechral / AISI 304 SS Wire

Degree of Protection : IP-20

Paint Shade : RAL 7032

**Item Code Sample**

BD    000    000    XX

BD — Equipment Name (Battery Discharger)

000 — Voltage Rating

000 — Current Rating

XX — Natural (NC) / Forced (FC) Cooling

Example of Item code :  
220V / 50A Battery Discharger

BD    220    050    FC

### Rating calculation of Discharge Resister Panel

Example : 1. Suppose 220V/100AH Lead acid battery to be discharge for 10 Hrs at the ECV at 1.85V

$$\text{Discharge Current} = \frac{\text{Battery AH Capacity}}{\text{Discharge Hrs.}}$$

$$= \frac{100 \text{ AH}}{10 \text{ Hrs}}$$

Hence Discharge Current = 10 Amp.  
Panel Rating is = 220V/10 Amps

Example : 2. Suppose 110V/100AH NI-CD battery to be discharge for 5 Hrs at the ECV at 1.14V

$$\text{Discharge Current} = \frac{\text{Battery AH Capacity}}{\text{Discharge Hrs.}}$$

$$= \frac{100 \text{ AH}}{5 \text{ Hrs}}$$

Hence Discharge Current = 20 Amp.  
Panel Rating is = 110V/20 Amps



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