

# Battery Dischargers / Programmeable Loads

# TH-LBPR

## Description:

The TH-LBPR is an automatic battery discharger/ programmeable load, designed to test industrial batteries and power supplies of any type, voltage and capacity.

This equipment can be programmed for precisely controlled constant current, adjustable from 10% to the maximum rated value, irrespective of the the battery / supply voltage. When the battery / supply voltage reaches the minimum programmed value, or when the maximum programmed test time is reached, the system shuts down automatically. The system is very simple to use and doesn't require particular training. The programming of the test requires less than 2 minutes and the operation is completely automatic.

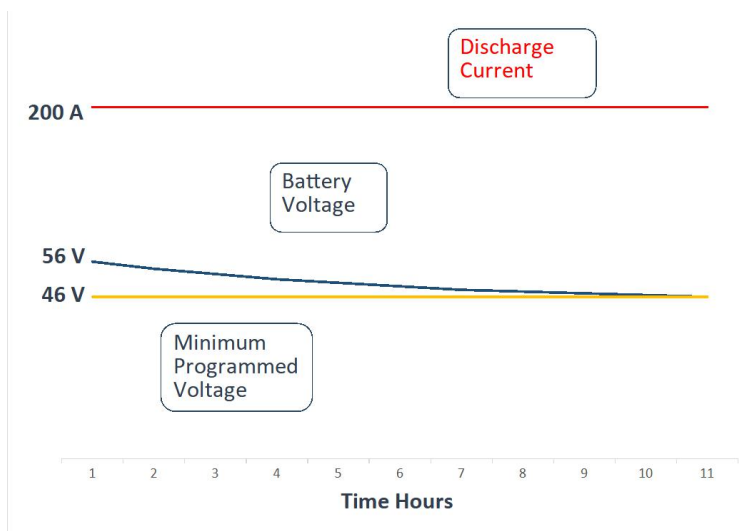
## Key Highlights:

- High frequency IGBT regulator, featuring constant current discharge of the battery
- Rugged construction for maximum reliability in heavy duty industrial applications
- Compact and easily portable
- Standard models for battery voltages up to 400 V
- Intelligent electronic protection system
- Can operate with batteries of any type
- Digital Meters (battery voltage and current, time,
- Integrated Datalogging suite (Optional)

## Standard Models:

- |                             |                              |
|-----------------------------|------------------------------|
| • Battery voltage: 12-48 V  | Max discharge current: 200 A |
| • Battery voltage: 12-96 V  | Max discharge current: 200 A |
| • Battery voltage: 24-135 V | Max discharge current: 150 A |

## Standard Discharge Curves:



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## Specifications:

POWER SUPPLY	
Input Supply	: AC
Voltage range	: 85-135 or 180-250 Vac
Phase	: Single Phase
Max power	: 250 Watts
Frequency	: 50/60 Hz
MECHANICAL	
External dimensions	: As Per Model Selected
Enclosure	: Powder-coated MS : Four wheels for easy movement RAL7035.
Cooling	: Forced ventilation
CONTROL AND METERING	
Digital display	: Battery voltage (Volts) : Battery current (Amps) : Time elapsed (hours.minutes) : Programmed minimum battery voltage (Volts) : Programmed maximum time of discharge (hours.minutes)
OTHER	
Buttons and controls	: 1Two buttons (Start, Stop) for system control. : Two Potentiometers for current regulation (Coarse – Fine regulation).
Maximum discharge time	: 48 hours
PC interface (Optional)	: Ethernet, USB Interface

## Features:

- Electronic polarity reversal and anti-arcing protection (without fuses) - An active circuit prevents any arcing between the connectors when the battery is being connected. If a battery is connected with reverse polarity, the system doesn't start and no current flows
- Integrated DataLogger (*Optional*) - The integrated DataLogger can save the entire discharge curve. At the end of the test, it's possible to download the data from the system to the PC in seconds. The standard connection interfaces are USB and Ethernet
- With additional software for complete battery analysis, including discharge time, voltage drop, Battery capacity, Battery Temperature, Cell-wise voltage monitoring can also be provided
- Temperature protection of all the power components and resistor bank - In case of internal overtemperature (e.g.: blocked fans, air passages obstructed) the discharger is set automatically in stand-by mode
- Auto-SoftStart - In case the cycle is interrupted for any reason, the system automatically restarts with a ramp time of 10-15 secs to hit the programmed load

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