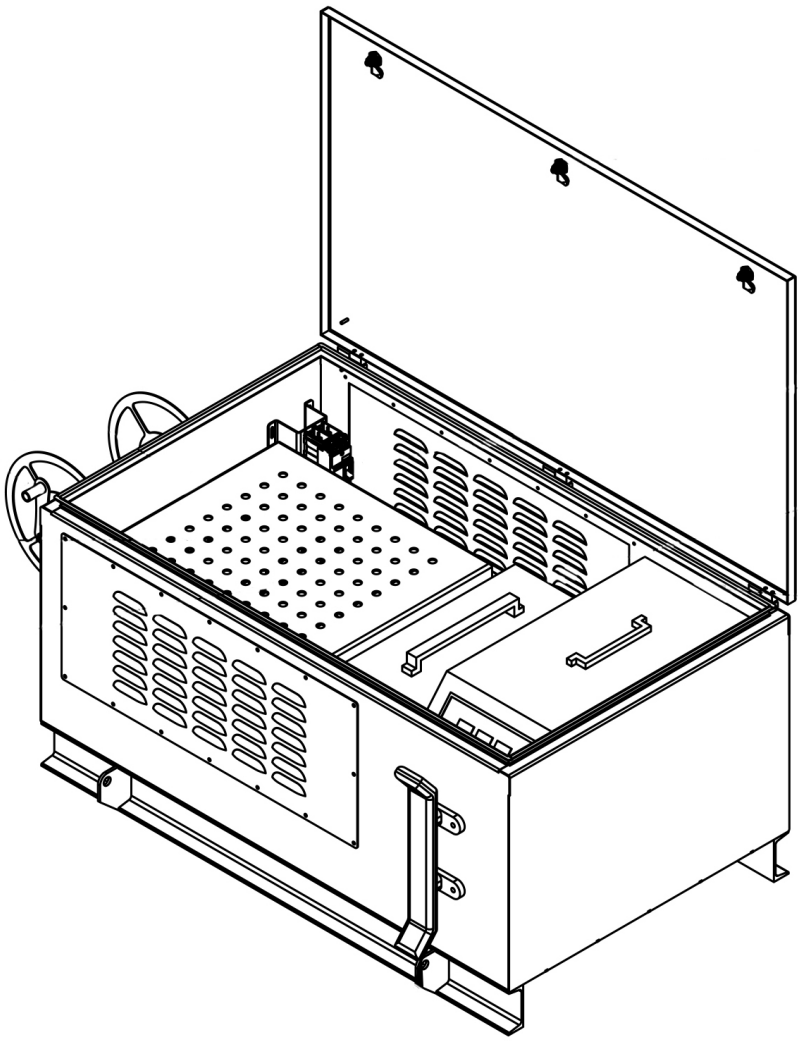
DATA SHEET

ChargePak - Portable Battery Testing System

Battery Testing System with Analytical Reporting



PRODUCT INTRODUCTION

ChargePak Portable Battery Testing System

Battery Testing System with Analytical Reporting

Utility sub-station managers and operators are faced with the challenges of increasing their utility testing capacity due to NERC PRC-005 and IEEE 450 standards for yearly required battery testing. Regular battery testing is critical for identifying issues before they become failures. These tests are typically time consuming and cumbersome, due to the set-up time which decreases the overall efficiency of labor and increases cost of operation. NERC requires that the results of tests be documented and available for audits. Inadequate documentation or failure to properly record test results can lead to non-compliance and fines.

Trystar's ChargePak Portable Battery Testing System (BTS) offers the full integration of a portable battery charger and load bank coupled with a bank of batteries with an integrated cabling system that eliminates battery movement during testing. The ChargePak BTS helps identify battery issues and supplies the data needed to mitigate future issues.

Key Features

- **Preassembled 125Vdc-50AH battery:**
  Provides the instantaneous energy needed to operate MV breakers and solenoids while feeding the steady substation loads.
- **VRLA- (Valve Regulated Lead Acid) pure lead plates:**
  Sealed plates provide lower rate of corrosion for easier maintenance, higher energy density and longer product life with resistance to extreme weather conditions.
- **Cabling:**
  - DC cables: 50 ft. extra flexible cables, reel mounted for the battery array.
  - AC cables are cleat mounted to power load bank and battery charger.
- **Easy plug and play keyed connectors:**
  Formulated to help prevent human error by ensuring that components can only be connected in one correct orientation.
- **Feather weight charger:**
  For charging the service battery, the station battery and to be used as a spare charger to replace the permanent charger.
- **NEMA 3R enclosure:**
  NEMA 3R enclosure to protect equipment from harsh outdoor elements.

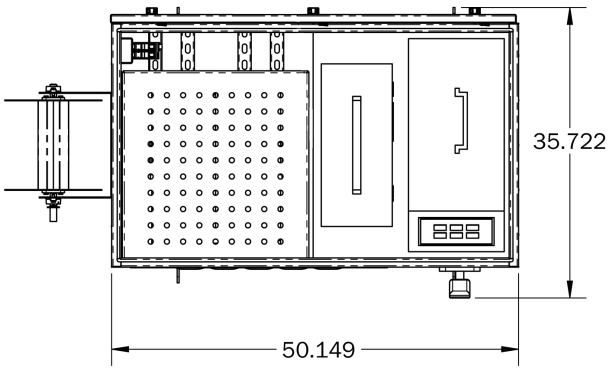
PRODUCT SPECIFICATIONS

Alarms/Warnings		
	Battery Charger Alarm Signals	Battery Test Failure Alarm / Low DC Voltage Alarm / Rectifier fail Alarm / High DC Voltage Alarm / Hight DC Voltage Shut-down Alarm / Fan Failure Alarm
	Battery Charger Warinings	AC Fail Alarm (power failure)
Mechanical		
	Dimensions (L x W x H) Inches	63.31" x 35.72" 24.75"
	Transport Weight	900 lbs

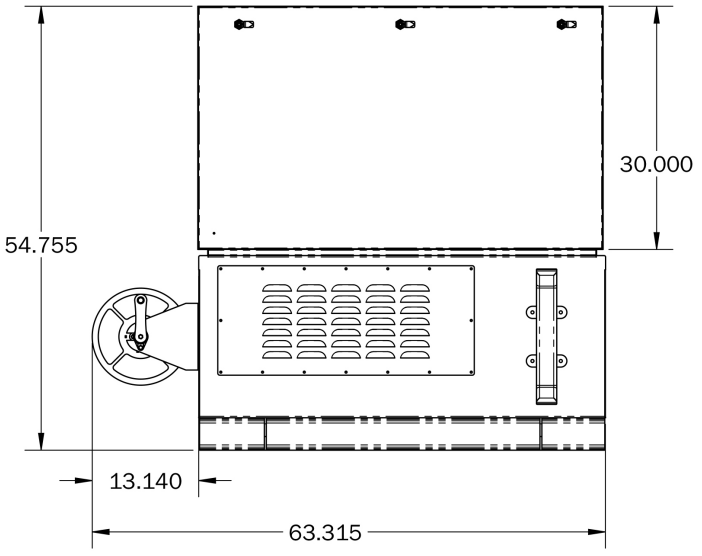
PRODUCT SPECIFICATIONS (CONT.)

Environmental		
	Operating Temperature	-4° to 113° F
	Storage Temperature	60° to 72° F
	Humidity Rating	up to 95% relative humidity (non-condensing)
	Pollution Degree	2
	Codes and Standards	NERC PRC-005 / IEEE 450
Battery Charge Features		
	Input Voltage	120V, 208V, 230V, 240V. Single Phase: 50 - 60HZ
	Output Voltage	24V, 48V, 125V, 250V, 380V, 480Vdc / < 5%, Power Factor: 0.99, Efficiency: 92%
	Total Harmonic Distortion (THD)	± 0.5% @ +10/-12% input voltage. ± 5% frequency and 0-100% load
	Static Load Regulation	=< 1% from 10-90% on resistive load
	Dynamic Load Regulation	Less than 100mV @ 136Vdc and 30mV @ 27Vdc and 56Vdc
	Output Ripple	Soft start, Current limit adjustable from 5% to 100% of normal rating. AC and DC output breaker
	Surge Suppression	On input and output

DIMENSIONS / DRAWINGS

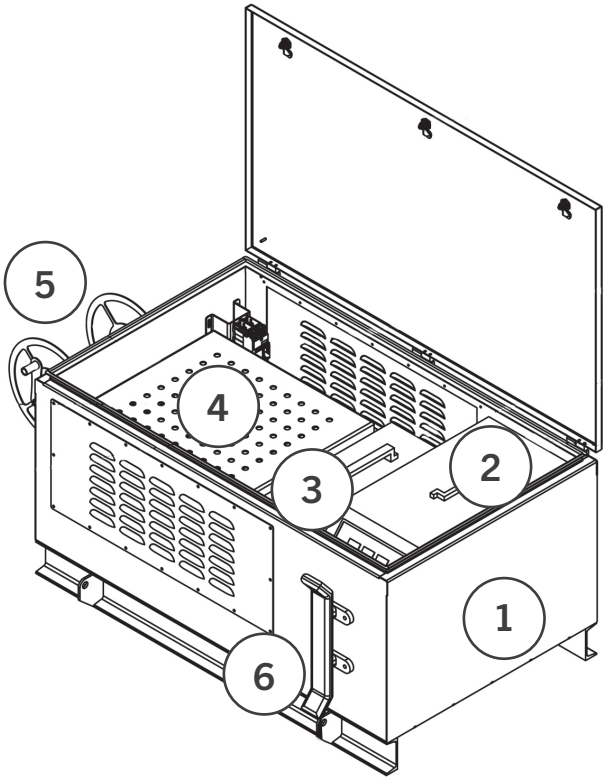


Top View

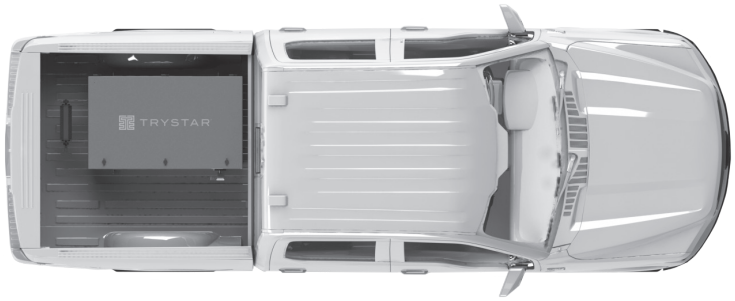


Side View (Door open)

ENCLOSURE CONTENTS



Enclosure Contents	
1	Enclosure
2	DV Power Battery (Load, 5.55-300Vdc; 0-240Adc; 0-19.7kW)
3	Battery Charger (35A @ 125Vdc, 208/240Vac input)
4	Array (12Vdc; 55Ah; 188.8WpC
5	Cord Storage Reel
6	Cleats (12"Type 316 Stainless Steel)



Suggested Mounting Option

(Top View)

ORDERING INFORMATION

Ordering Information		
Catalog Number	Portable BTS	ChargePak Mobile Battery Testing System

