



Advanced Test Equipment Corp.

Rentals • Sales • Calibration • Service

Electric Vehicle Supply Equipment Catalog No.

PL4150

EVSE Test System Product Specifications



SPECIFICATIONS

The PL4150 is a load box that can test many different types of EV chargers up to 150kW. The unit is used with a T4000 or T4350. Specs are reduced when used with a T4000. The load box is charger-agnostic. It will work with any charger that the T4000 / T4350 can operate with (CCS1, CCS2, NACS, CHAdeMO, GBT, etc...)

Charger Capabilities:

- Single Phase AC charger
 1. Voltage: 120V, 208V, 240V
 2. Current: 0A - 80A

- 3-Phase AC chargers
 1. Voltage: 400V line to line
 2. Current: 0A - 32A per phase
- DC chargers for 400V battery technology
 1. Voltage: 350V - 420V. 360V nominal
 2. Current 20A - 350A. Up to 375A for a short time
- DC chargers for 800V battery technology
 1. Voltage: 700V - 800V. 720V nominal
 2. Current 10A - 175A

Auto-Interface: The T4000 / T4350 automatically detects the connected load box. The user does not need to select the load box in EVSE Tester UI.



TESCO METERING

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USA

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DC Load Box vs Charger Calculations								
Load Box Mode	Voltage [V]	Current [A]	Power [kW]	100A Chargers (% full scale)	200A Chargers (% full scale)	350A Chargers (% full scale)	500A Chargers (% full scale)	Notes
800V	360	200	72	200%	100%	57%	40%	Limitation with T4000, Cannot run a FL on 350A, and 500A chargers
800V	360	350	126	350%	175%	100%	70%	T4350 Only
400V	390	375	146.3	375%	188%	107%	75%	T4350 Only
800V	720	175	135.4	175.00%	87.50%	50.00%	35.00%	Cannot run a FL on 350A, and 500A chargers

Auto Cool-off: When the PL4150 completes a test, and ramps down, it will cool off at a lower power for an additional 5 seconds – 2 minutes automatically.

Temperature, Humidity and Fan Speed Sensors:

- The unit has built in sensors for ambient temperature, exhaust temperature, humidity, and fan speed.
- If a sensor or fan is malfunctioned, the unit will cease testing

Safety Sensors:

- Electro-mechanical E-STOP for safety. The unit will detect if it is connected, open or closed
- Detects that the LID is open / closed and will prompt the user to open it before a test begins
- Voltage sensors and will monitor that the BUS voltage does not exceed maximum capabilities

PHYSICAL

The PL4150 is a load bank that will require a forklift or crane to lift and place in the back of a pickup truck. The unit is heavy, large and contains moving parts like a lid and fans. The PL4150 has forklift channels on the bottom and eyebolts at the top corners for lifting. The PL4150 also has some parts

that protrude out such as a rain hood, mounting bracket, and waterproof lid for breakers.

Size: 28"L x 43.2"W x 40.5"H

Weight: ~350 lbs.

Cabling:

- Conduit with Staubli termination (7ft) to be used with a T4000 or T4350
 - DC +, DC-, L1, L2, L3, L4, and PE
 - Batt, digital GND, and Comms
- E-Stop with M12 header (16ft) to in case of emergencies

LEDs

- Green LED** to indicate power
- Yellow / Amber LED** to indicate Comms with T4000 / T4350
- Red LED** to indicate unit is running and dissipating power

Breakers: 2 Breaks for AC lines

Waterproof Lid: Waterproof lid with sensor. Closed when not in use

NEMA 3R Waterproof Rating