

Lithium-Ion Battery Charging Stations

Dimensions:

20'-0" (L) x 8'-0" (W) x 9'-6" (H)

40'-0" (L) x 8'-0" (W) x 9'-6" (H)

Problem Solved:

The customer requested modified container solutions to charge batteries at their distribution center.

Description:

DropBox worked to develop two battery charging stations. We completed a 20' version in 2019 and a 40' version in 2020. Both versions included a charging room for either plug-in battery chargers or rack mounted battery chargers and a utility room. The battery charging room is 1-HR fire-rated with electric connections to support batteries. The utility room allows access to electric panels, a fire alarm, and suppression controls. The system acts in three stages:

- Advanced Air Sampling – A continuous air sampling device is installed to detect the first signs of smoke. Upon detection, all battery charging is turned off and HVAC remains operational to continue conditioning space.
- Gas Detection – Upon carbon dioxide, hydrogen, or methane gas detection, all battery charging is turned off, HVAC is turned off, and utility exhaust turns changing air once per minute.
- Smoke and Heat Detection – Upon smoke or heat detection, all battery charging is turned off, HVAC is turned off, utility exhaust turns on until fire suppression system is released.



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