

## Seismic Indoor Battery Rack for Front Terminal Batteries

### Overview

The Marathon Front Terminal Seismic Battery Rack is a two-post, wide-rail, steel framework supporting 3 to 5 battery shelves. Each battery shelf accommodates up to four Marathon Front Terminal type lead acid batteries. The rack system is designed to be located in an indoor environment for the purpose of providing DC back-up power during utility outages.

The racks are certified to withstand Zone 4 earthquakes (Telcordia GR-63-CORE) by an independent national laboratory.

The positive and negative collector buses are sized for 1200 amps and include standard acceptable 2-hole lug bolt pattern. The standard EIA Universal hole pattern allows for mounting of electronic equipment when fewer than 5 shelves are mounted in the rack.

### Primary Benefits

- Heavy duty structure can be installed in all seismic zones
- Battery trays adapt to fit different Marathon Front Terminal amp-hour sizes
- Battery and rack design permits quick installation and easy terminal access
- Factory pre-wired to meet specified DC voltage requirement
- Compact design permits more power in a smaller footprint

### Applications

- Telecommunications
- Utility
- UPS



## Technical Specifications

<b>Physical Dimensions</b>	Rack (H x W x D):	84" x 26.89" x 24" (213 x 68.3 x 60.9 cm)
	Shelf (H x W x D):	13.27" x 21.57" x 21.16" (33.7 x 54.78 x 53.74 cm)
	Footprint (W x D)	26.89" x 24" (68.3 x 60.9 cm)
	Weight (without batteries):	
	3 Shelf	~575 lbs (260.815 Kg)
	4 Shelf	~650 lbs (294.835 Kg)
	5 Shelf	~725 lbs (328.854 Kg)
	Battery Weight Capacity:	552 lbs per shelf
<b>Construction Materials</b>	Material:	Frame: hot rolled steel Collector bus bars: tin plated copper
	Finish:	UL Pantone, pewter charcoal (rack), telephone gray (shelves), TGIC polyester powder coat
<b>Battery Configuration</b>	±24 VDC Configuration:	Two strings of two front terminal batteries each per shelf. Separate cabling to collector bus bars for each string.
	±48 VDC Configuration:	One string of four front terminal batteries per shelf. Separate cabling to collector bus bars for each shelf.
<b>Standard Components</b>	Rack:	<ul style="list-style-type: none"> <li>• Two-post, wide-rail, steel framework supporting 3 to 5 battery shelves</li> <li>• Two separate insulated collector bus bars at top of rack with cover</li> <li>• All cabling to connect strings to collector bus bars.</li> <li>• Four removable lifting rings at top of rack.</li> </ul>
	Battery Shelf:	<ul style="list-style-type: none"> <li>• Shelves bolted to both rack and each other to form a rigid sub-structure</li> <li>• Two battery hold down bars per shelf with multiple mounting locations to accommodate batteries of differing heights.</li> <li>• Two 1" spacers per shelf to prevent shorter batteries from shifting position on shelf during seismic activity.</li> </ul>
<b>Optional Components</b>	Circuit Breaker Kit:	Maintenance disconnect circuit breaker for each battery string. Each circuit breaker includes mounting flange, cover, and required cable from battery to breaker.
<b>Certification Information</b> Zone 4 seismic (Telcordia GR-63-CORE)		

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