

# TELERGY BATTERY RACKS



## ADVANTAGES OF THE HIGH DENSITY TELECOM ENERGY RACK:

ESS offers two unique footprints for our High Density Telecom Energy Racks. At only 26.0" wide, the 4x6 Telergy Rack allows for up to 6-48V Strings or 12-24V Strings to fit in the place of any 23" rack. Providing up to 2,280 Ahr in only 4.3 sq. ft. it is the smallest footprint of any NEBS Rated rack in the US.

In addition, our 6x6 Telergy Rack is designed for maximum floor space savings by allowing up to 9 ea. 48V strings or 18 ea. 24V strings. The 6x6 Telergy Rack is also certified for Telcordia GR-63-Core Seismic Zone 4 requirements.

- Unlike other equipment racks, the Telergy rack is completely front accessible.
  - Unlike the competition who uses side mounted connections, all cables connections of the Telergy Rack are front accessible. Side mounted hardware connections can not be accessed during maintenance or changes if the side of the racks are located next to walls or other racks.
  - On Telergy Racks, cables are used on the sides of the rack instead of open copper buss bars, providing fewer un-insulated parts to cause damage during a seismic event. The heavily insulated cabling is far safer than competitors tiered racks with thin plastic covers or un-insulated bus bars as protection from short circuits, ground faults and fires.
  - The Telergy output buss bars are located on the top, recessed into the frame of the rack for protection but still accessible by 360 degrees unlike the competition.

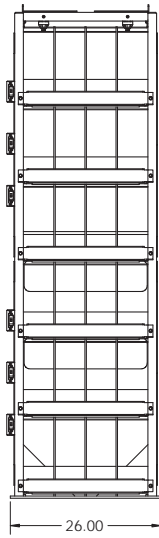


## OTHER BENEFITS INCLUDE:

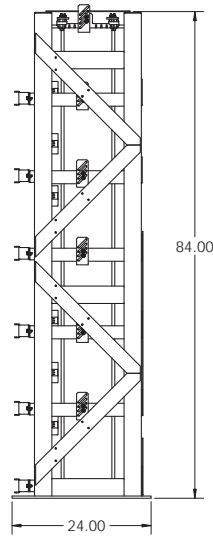
- Battery partitions provide an additional .250" of air space along the sides of the batteries providing better air flow for cooler temperatures and longer battery life.
- Steel battery restraints on all sides prevent excessive movement during seismic events.
- The racks are available in various heights of 3, 4, 5 and 6 tiers.
- Available standard with bulk output or with optional circuit breaker protections on each string.
- The 3 tier Telergy Rack is equipped with a top plate for mounting a half rack (19" or 23") on top of the rack for equipment or a DC Plant.
- The 4 and 5 tier Telergy Racks feature optional 19" or 23" rack mount rails for mounting rectifiers and other equipment in the same rack, resulting in a complete high density DC Plant and battery solution.
- The Telergy Rack is adjustable to all 140-190 Ahr front terminal batteries. In addition, the racks can be configured to house 200 Ahr batteries by using a special front retainer.
- Pre wired and pre-assembled to expedite installations. Only anchoring and installation of the batteries is required.
- Fastest installation time of any rack sold due to minimal assembly required.



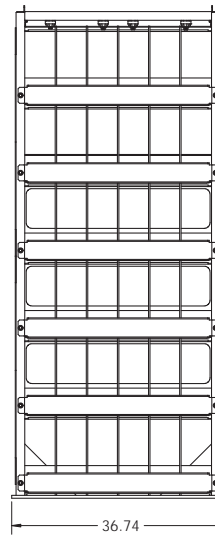
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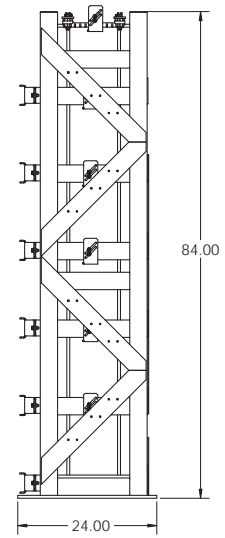
FRONT VIEW  
TR4X6Z4



SIDE VIEW  
TR4X6Z4



FRONT VIEW  
TR6X6Z4



SIDE VIEW  
TR6X6Z4

## SPECIFICATIONS

BASE MODEL NUMBER	MAX NUMBER OF STRINGS (48V)	MAX NUMBER OF STRINGS (24V)	WIDTH INCHES (MM)	DEPTH INCHES (MM)	HEIGHT INCHES (MM)	APPROX. WEIGHT LBS (KG)
TR4X6Z4	6	12	26 (661)	24 (610)	84 (2,133)	472 (214)
TR4X5Z4	5	10	26 (661)	24 (610)	84 (2,133)	441 (200)
TR4X4Z4	4	8	26 (661)	24 (610)	84 (2,133)	399 (181)
TR4X3Z4	3	6	26 (661)	24 (610)	84 (2,133)	290 (132)
TR6X6Z4	9	18	36.74 (935)	24 (610)	84 (2,133)	700 (318)
TR6X5Z4 <sup>1</sup>	7	15	36.74 (935)	24 (610)	84 (2,133)	643 (292)
TR6X4Z4	6	12	36.74 (935)	24 (610)	84 (2,133)	586 (266)
TR6X3Z4 <sup>1</sup>	4	9	36.74 (935)	24 (610)	84 (2,133)	430 (195)

\*APPROXIMATE WEIGHT IS BASED ON BASE 48V CONFIGURATIONS USING #4 CABLE.

## OPTIONS LEGEND

BASE MODEL NUMBER WITH STANDARD OPTIONS (MUST BE SPECIFIED WHEN ORDERING)				ADDITIONAL RACK OPTIONS TO CONSIDER (ADD LETTERS AFTER STANDARD OPTIONS)			
TRXXXZ4	-	48 VOLTAGE OPTION	J CABLE GAUGE OPTION (SEE NOTE 1)	A BATTERY SIZE OPTION (SEE NOTE 2)	B100 BREAKER OPTION (SEE NOTE 3)	W ALARM OPTION (SEE NOTE 4)	B COLOR OPTION (SEE NOTE 5)
BASE MODEL NUMBER		48 = 48V STRINGS	J = #4 CABLE (100A)	A = 150 Ah-190Ah BATTERIES (21.1" LG)	B100 = 100A BREAKER (#4 CABLE USED UNLESS SPECIFIED)	W = BREAK- ERS WIRED FOR ALARM (NC SIGNAL)	B = BLACK
		24 = 24V STRINGS (SEE NOTE 1)	K = #2 CABLE (200A)		B = 200 Ah BATTERIES (22"-23" LG)		B200 = 200A BREAKER (#2 CABLE USED UNLESS SPECIFIED)
			L = 1/0 CABLE (250A)	B250 = 250A BREAKER (1/0 CABLE USED UNLESS SPECIFIED)			D = WHITE
			N = 4/0 CABLE (400A)	B350 = 350 A BREAKER (4/0 CABLE USED UNLESS SPECIFIED)			E = CREAM
						F = KONE GRA	

NOTES:

- THE 48V OPTION IS NOT AVAILABLE FOR THE TR6X5Z4 AND TR6X3Z4 OPTIONS. CABLE OPTIONS "L" AND "N" ARE NOT AVAILABLE FOR ANY 24V CONFIGURATIONS.
- RACK IS DESIGNED FOR BATTERIES 150Ah TO 200Ah. THE LARGER 200 Ah BATTERIES USE A DIFFERENT FRONT RETAINER. THIS OPTION MUST BE SPECIFIED WHEN ORDERING.
- BREAKERS LARGER THAN 100AMPS CAPACITY ARE NOT AVAILABLE FOR ALL 6 BATTERY WIDE RACK CONFIGURATIONS. UNLESS SPECIFIED, RACKS WILL BE CABLED WITH CABLE SHOWN IN OPTIONS LEGEND)
- RACKS CAN BE FACTORY WIRED FOR ALARMS. ALL BREAKERS WILL HAVE THE ALARM OPTIONS BUT ARE WIRED FOR ALARMS ONLY WHEN SPECIFIED.
- ALL RACKS ARE POWDER COATED ASA61 GRAY UNLESS SPECIFIED. ADD COLOR CODE ONLY FOR RACKS OTHER THAN ASA61 GRAY.