

Tel.X Battery Rack Systems

NEBS Seismic Zone 4 certified

Improved design
40% lighter

Saft's Zone 4 rack systems, together with Tel.X high energy density batteries, provide a robust, lighter, and more reliable battery back-up solution for demanding telecom applications.

The systems are available in two voltage ranges: 24 V and 48 V systems. With 5 shelf levels and bus bar(s), the rack can host 48 V or 24 V battery strings.

Saft's turnkey solution significantly reduces the floor loading when compared to an equivalent VRLA system and features.

Saft's rack system is NEBS certified (GR-63-CORE) and comes pre-assembled with cables.



24 V Cable harnesses and bus bar illustrated



Anchoring



24 V 80-04067-25 pictured

Applications

- For wireline and wireless applications such as:
 - CEV, hut and shelter
 - BTS (base stations)
 - Central Office
 - Customer premises

System features

- Rack certified Seismic Zone 4 per GR-63 Core
- Available in 2 voltages: 24 V and 48 V
- Integrated bus bar(s) with polycarbonate cover(s)
- Pre-wired with: Direct connects or SB 50 Anderson quick connects
- Scalable: up to 5 each 48 V battery strings per system (or 10 each 24 V battery strings)
- Scalable back-up power: from 8.2 kWh up to 41 kWh
- All shelf levels are liquid tight
- All shelf levels contain a tray liner for compliance with NEC 408.8
- Painted grey using durable epoxy powder-coat
- Template for anchoring pattern provided
- Optional 3 RU equipment mount (not shown)

System benefits

- Compact and integrated solution
- Significant reduction in floor loading compared to VRLA (more than 30%)
- Increased operational reliability

Tel.X battery

Saft's Tel.X battery is a proven solution designed specifically for telecom applications.

- Long life
- High reliability
- Maintenance-free
- High energy density
- NEBS certified



SAFT

Battery capacities and floor loading for the Seismic Zone 4 equipment rack systems

Rack system without batteries

Rack model	Rack weight without batteries				Width		Depth		Rack dimensions Height	
	48 V		24 V		[cm]	[in]	[cm]	[in]	[cm]	[in]
	[kg]	[lbs]	[kg]	[lbs]						
80-04067-XX	160	353	171	376	64	25	69	27	213	84

Rack system with batteries

Battery model	Rack weight with batteries				Number of strings		Ah per string	Max Wh	48 V		Floor load factor 24 V	
	48 V		24 V		48 V	24 V			[kg/m ²]	[lbs/ft ²]	[kg/m ²]	[lbs/ft ²]
	[kg]	[lbs]	[kg]	[lbs]								
TLX 180	919	2027	929	2050	5	10	172	41,280	2112	433	2136	438
TLX 180	767	1692	777	1715	4	8	172	33,024	1763	361	1787	366
TLX 180	615	1357	625	1380	3	6	172	24,768	1414	290	1438	295
TLX 180	463	1022	474	1045	2	4	172	16,512	1066	218	1089	223
TLX 180	311	687	322	710	1	2	172	8,256	717	147	741	152

Weights listed are with a fully equipped rack using Direct connect wire harnesses

Floor loading is calculated based on the surface area occupied by the rack (battery shelf included). No aisle space added.

Notes

1. Use provided information to ensure proper floor loadings are respected. Review building codes and respect proper engineering practices before installing the battery rack systems. Always consider fully loaded battery rack systems when evaluating floor loadings.
2. Anchoring mechanism and grounding straps are not provided with the rack systems. Anchoring and grounding shall be done in accordance with all applicable and required company as well as local, state and federal codes.
3. Battery Rack system certified Seismic Zone 4 per Telcordia Technologies GR-63 CORE, section 4.4.1 & 4.4.2, by a Nationally Recognized Testing Lab (NTS).
4. To maintain the Seismic Zone 4 rating and certification the battery trays should be fully loaded (i.e.: for a 24 V system two (2) battery strings should be installed per shelf).
5. Saft is not liable or responsible for the improper installation of the rack systems.



Saft

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