

# Tel.X-Plus 48 VDC Battery Rack Systems

## NEBS Seismic Zone 4 Certified



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

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

Saft's rack system is NEBS certified seismic zone 4 (GR-63-CORE) and comes fully assembled and wired.

The zone 4 rack is available for 48 VDC systems. With 5 shelf levels and bus bars, the rack can host up to five 48 VDC battery strings. For other voltage options, contact your Saft representative.

### Applications

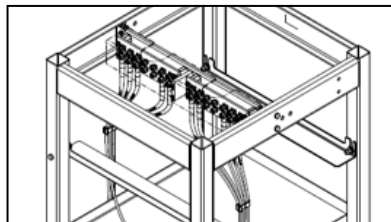
- For wireline and wireless applications such as
  - Controlled Environment Vaults (CEVs), huts and shelters
  - Base Stations (BTS)
  - Central Offices (CO)
  - Customer Premises (CP)

### System benefits

- Compact integrated solution
- Significant reduction in floor loading compared to VRLA (typically more than 50% for 1-to-2-hour discharge rate applications)
- Increased operational reliability
- Turnkey, no assembly required

### System features

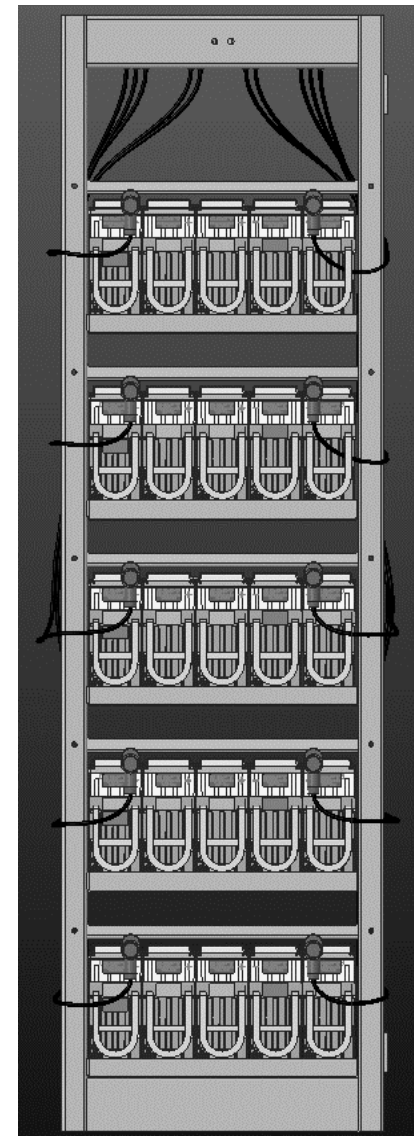
- Rack certified Seismic Zone 4 per GR-63-CORE
- Integrated bus bars with polycarbonate covers
- Available in 2 pre-wired options:
  - Direct connects using #4/0 AWG cables
- Scalable:
  - From 6.7kWh to 41.3kWh of energy storage
  - Up to five 48 VDC battery strings per rack
- All shelves are liquid-tight
- All shelves equipped with liner for compliance with NEC 408
- Painted grey using a durable epoxy powder-coat
- Anchoring template pattern provided



Busbar Detail View



Anchor Mount Detail View



## Battery capacities and floor loading information for the Seismic Zone 4 equipment rack system

### Rack system without batteries

Rack model (Saft p/n)	Rack weight without batteries		Rack dimensions					
	48 VDC		Width		Depth		Height	
	[kg]	[lbs]	[cm]	[in]	[cm]	[in]	[cm]	[in]
80-05226-05	181	400	63.5	25	68.6	27	213.4	84

### Rack system with Tel.X-Plus battery technology

Battery model	Rack weight with batteries		Number of strings	Ah per Rack	Nominal Wh	Floor load factor	
	48 VDC					48 VDC	48 VDC
	[kg]	[lbs]	[kg/m <sup>2</sup> ]	[lbs/ft <sup>2</sup> ]			
TLX+ 150	300	661	1	140	6,720	688	148
TLX+ 150	434	957	2	280	13,440	995	212
TLX+ 150	568	1,252	3	420	20,160	1,303	274
TLX+ 150	702	1,548	4	560	26,880	1,610	337
TLX+ 150	836	1,843	5	700	33,600	1,917	400
TLX+ 180	345	765	1	172	8,256	791	163
TLX+ 180	497	1,095	2	344	16,512	1,140	241
TLX+ 180	662	1,459	3	516	24,768	1,518	319
TLX+ 180	828	1,825	4	688	33,024	1,899	397
TLX+ 180	993	2,189	5	860	41,280	2,278	474

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

Prior to installing the rack consider the following remarks:

1. Battery Rack system has been tested and certified Seismic Zone 4 per Telcordia Standard GR-63-CORE, section 4.4.1 & 4.4.2, by a Nationally Recognized Testing Lab (NTS TR-PR053393).
2. Saft is not liable or responsible for the improper installation of the rack system.
3. Evaluate floor loading.
4. Anchoring bolts and grounding straps are not provided with the rack system. Anchoring and grounding shall be done in accordance with all applicable and required company as well as local, state, and federal codes.

To maintain the Seismic Zone 4 rating and certification, the battery trays should be fully loaded (i.e.: no partially filled trays).

Restriction devices should also be in place and installed as recommended in the installation instructions.



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