

# Tel.X Battery rack systems

## Standard rack

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

The modular and scalable solution systems are available in two voltage ranges: 24 V and 48 V systems. Available in standard 19" and 23" rack, the systems are custom fit for the overall Tel.X battery range. The systems are capable to host up to 5 each 48 V battery strings per rack. This combination allows for accrued flexibility of both foot print and back-up capacity range most suitable for deployment in demanding indoor environments.

With these systems, Saft is able to provide a turnkey solution which significantly reduces the floor loading compared to VRLA.

Saft's rack systems are delivered pre-assembled and pre-wired.

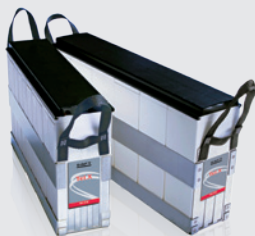
### Applications

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

### 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



Cable harnesses and bus bar

### System features

- Based on standard frame width: 19" or 23"
- Available in 2 versions: 24 V or 48 V
- Integrated bus bar(s) with polycarbonate cover(s)
- Pre-wired with: Direct Connect or SB 50 Anderson quick connect
- Modular and scalable: up to 5 each 48 V battery strings per system (or 10 each 24 V battery strings)
- Scalable back-up power: from 3.6 kWh up to 41 kWh
- All levels are liquid tight
- Painted grey using durable epoxy powder-coat
- Template for anchoring pattern provided

### System benefits

- Compact, optimized and integrated solution
- Significant reduction in floor loading compared to VRLA (15 % to 40 %)
- Pre-assembled and pre-wired for rapid installation
- Flexible in voltage, capacity, dimensions and connections to answer individual customer's needs
- Increased operational reliability



**SAFT**

## Battery capacities and floor loading for the standard rack systems

### 19" rack system without batteries

Battery model	Rack weight without batteries				Rack dimensions					
	48 V [kg]	48 V [lbs]	24 V [kg]	24 V [lbs]	W [cm]	W [in]	D [cm]	D [in]	H [cm]	H [in]
TLX 80	104	230	122	270	52	20.5	42	16.5	213	84
TLX 100	113	250	132	290	52	20.5	52	20.5	213	84
TLX 150	127	280	145	320	52	20.5	71	28.0	213	84
TLX 180	132	290	150	330	52	20.5	85	33.5	213	84

### 19" rack system with batteries

Battery model	Rack weight with batteries				Number of strings		C <sub>8</sub> Ah/string	Max Wh/string	Floor loading [kg/m <sup>2</sup> ]	Floor loading [lbs/ft <sup>2</sup> ]
	48 V [kg]	48 V [lbs]	24 V [kg]	24 V [lbs]	48 V	24 V				
TLX 80	506	1115	524	1155	5	10	75	18000	2400	492
TLX 100	581	1280	599	1320	5	10	97	23280	2208	452
TLX 150	814	1795	832	1835	5	10	140	33600	2248	460
TLX 180	934	2060	953	2100	5	10	172	41280	2150	440

The floor loading data is calculated based on the full system load.

### 23" rack system without batteries

Battery model	Rack weight without batteries				Rack dimensions					
	48 V [kg]	48 V [lbs]	24 V [kg]	24 V [lbs]	W [cm]	W [in]	D [cm]	D [in]	H [cm]	H [in]
TLX 80	109	240	127	280	62	24.5	38	15.0	213	84
TLX 100	118	260	136	300	62	24.5	42	16.5	213	84
TLX 150	132	290	150	330	62	24.5	57	22.5	213	84
TLX 180	136	300	154	340	62	24.5	68	26.7	213	84

### 23" rack system with batteries

Battery model	Rack weight with batteries				Number of strings		C <sub>8</sub> Ah/string	Max Wh/string	Floor loading [kg/m <sup>2</sup> ]	Floor loading [lbs/ft <sup>2</sup> ]
	48 V [kg]	48 V [lbs]	24 V [kg]	24 V [lbs]	48 V	24 V				
TLX 80	517	1140	535	1180	5	10	75	18000	2258	462
TLX 100	624	1375	642	1415	5	10	97	23280	2460	504
TLX 150	821	1810	839	1850	5	10	140	33600	2360	483
TLX 180	930	2050	948	2090	5	10	172	41280	2246	460

The floor loading data is calculated based on the full system load.

### Notes

1. Use provided information to insure 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. Saft is not liable or responsible for the improper installation of the rack systems.



**Saft**

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