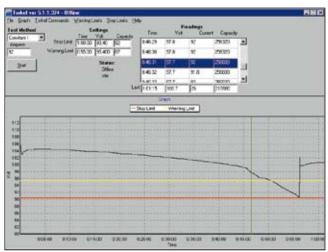
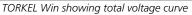
Battery testing accessories

Item	Description	TORKEL 820	TORKEL 840/860	Art. No.
Software				
TORKEL Win	PC software Shows the complete voltage curve Last recorded time, voltage, current and discharged capacity Scroll-window for all recorded values Remote control of TORKEL Report functions	X	X	BS-8208X
Extra loads				
TXL units	These resistive extra loads do not perform any regulating functions. They are designed for use together with TORKEL Battery Load Units. Their purpose is to provide higher load currents for use in constant current or constant power tests. Together, TORKEL and the TXL Extra Loads form a system that can discharge batteries with currents of up to several kA. TXL Extra Loads are connected directly to the battery, and TORKEL measures the total current using a clamp-on ammeter.			
TXL830	TXL830 is intended for 24 V systems. Complete with cable set GA-00554 and transport case GD-00054. A DC clamp-on ammeter must be used to enable TORKEL 820 to measure the total current.	X		BS-59093
TXL850	TXL850 is intended for 48 V systems. Complete with cable set GA-00554 and transport case GD-00054. A DC clamp-on ammeter must be used to enable TORKEL 850 to measure the total current.	X	X	BS-59095
TXL870	TXL870 is intended primarily for 125 and 240 V battery systems. Complete with cable set GA-00550 and transport case GD-00054. A DC clamp-on ammeter must be used to enable TORKEL 870 to measure the total current.		X	BS-59097
Cable sets				
Cable set for TXL830 and TXL850	2 x 3 m, 70 mm², with cable lug. Max 100 V 270 A. Weight: 5.0 kg (11 lbs)	X	X	GA-00554
Extension cable set, 110 A	2 x 3 m, 25 mm². Max 480 V. Weight: 3.0 kg (6.6 lbs)		X	GA-00552
Sensing lead set	Cable set for measuring voltage at battery terminals. 2 x 5 m (16.4 ft)	Х	Х	GA-00210
Clamp-on ammeter				
DC clamp-on ammeter, 200 A	To measure current in circuit outside TORKEL	Х	X	XA-12792
DC clamp-on ammeter, 1000 A	To measure current in circuit outside TORKEL	Х	Х	XA-12790







TXL870

Specifications TXL 830/850/870

Specifications are valid at nominal input voltage and an ambient temperature of +25°C, (77°F). Specifications are subject to change

Environment				
Application field		The instrument is intended for use in high-voltage substations and industri environments.		
Temperature				
Operating		0°C to +40°C (32°F to +104°F)		
Storage & trans- port		-40°C to +70°C (-40°F to +158°F)		
Humidity		5% – 95% RH, non-condensing		
CE-marking				
Safety standards		IEC 61010-1:2001 Incl. national dev. for US and CA EN 61010-1:2001		
EMC standards		EN 61326: 1997+	\1:1998+A2:2001	
General				
Mains voltage		100 - 240 V AC, 50/60 Hz		
Power consumption		75 W (max)		
Protection		Thermal cut-outs, automatic overload protection		
Dimensions				
Instrument		210 x 353 x 600 mr	m (8.3" x 13.9" x 23.6"	
Transport ca	se	265 x 460 x 750 mr	n (10.4" x 18.1" x 29.5"	
Weight		13 kg (28.7 lbs) 21.4 kg (47.2 lbs) with transport case		
Cable sets				
for TXL830/850		2 x 3 m (9.8 ft), 70 r cable lug. Max. 10		
for TXL870		2 x 3 m (9.8 ft), 25 cable clamp/lug. I (6.6 lbs)	6 mm2, 110 A, with Max. 480 V. 3 kg	
Load section				
	TXL83	0 TXL850	TXL870	
Max. voltage (DC)	28 V	56 V	140 V/ 280 V	
Max. current	300 A	300 A	112 A at 140 V	

Load section			
	TXL830	TXL850	TXL870
Max. voltage (DC)	28 V	56 V	140 V/ 280 V
Max. current	300 A	300 A	112 A at 140 V 56 A at 280 V
Max. power	8.3 kW	16.4 kW	15.8 kW

Max. power	8.3 kW	16.4 kW	15.8 kW
Internal resis	tance, 3-pos	ition select	or
Position 1	TXL830	TXL850	TXL870
Current	0.275 Ω	0.55 Ω	4.95 Ω
100 A	at 27.6 V	at 55.2 V	_
	(12 x 2.3 V)	(24 x 2.3 V)	
78.5 A	at 21.6 V	at 43.2 V	_
	(12 x 1.8 V)	(24 x 1.8 V)	
50.1 A	_	_	at 248.4 V
			(108 x 2.3 V)
39.2 A	_	_	at 194.4 V
			(108 x 1.8 V)
Position 2	TXL830	TXL850	TXL870
Current	0.138 Ω	0.275 Ω	2.48 Ω
200 A	at 27.6 V	at 55.2 V	_
		(24 x 2.3 V)	
156 A	at 21.6 V	43.2 V	_
		(24 x 1.8 V)-	
Position 3	TXL830	TXL850	TXL870
Current	0.092 Ω	0.184 Ω	1.24 Ω
300 A	at 27.6 V	at 55.2 V	_
		(24 x 2.3 V)	
235 A	at 21.6 V	43.2 A	_
		(24 x 1.8 V)	
100 A	_	_	at 124.2 V
			(54 x 2.3 V)

TORKEL/TXL systems – examples

Max. constant current (A)	Number of TORKEL-units	Number of TXL-units
234	1	1
571	 1	4
918	2	6
TORKEL 820 + TXL8	30. 24 V battei	rv (12 cells)¹)
495	1	1
1170	1	4
1890	2	6
TORKEL 820 + TXL8	50, 48 V batter	ry (24 cells) ¹⁾
499	1	1
1189	1	4
1918	2	6
TORKEL 840/860 + 1	TXL830, 24 V b	attery (12 cell
263	1	1
670	2	2
1005	3	3
TORKEL 840/860 + 7	ΓXL850, 48 V b	attery (24
cells)¹)		Ī
264	1	1
909	2	3
TORKEL 840/860 + 7	ΓXL870, 110 V I	battery (54
cells)¹)		Ī
188	1	1
532	2	4
845	2	8
TORKEL 840/860 + 7	ΓXL870, 120 V	battery (60
cells) ²⁾		
194	1	1
557	2	4
895	2	8
TORKEL 840/860 + 7	TXL870, 220 V	battery (108
cells)¹)		
94	1	1
266	2	4
423	2	8