TXL830, TXL850 and TXL870
Extra load units for TORKEL test system

- Provide higher load currents for concurrent power tests
- Discharging process controlled by a TORKEL unit
- Connect directly to the battery under test

康高特-MEGGER TXL830, TXL850 and TXL870蓄电池测试系统 DESCRIPTION

TXL

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.

TXL extra loads are shut down automatically when TORKEL is stopped.

TORKEL / TXL - systems examples

Max. constant current (A)	Number of TORKEL-units	Number of TXL-units
TORKEL 820 + TXL830, 12 V battery (6 cells)[1)]		
234	1	1
571	1	4
918	1	6
TORKEL 820 + TXL830, 24 V battery (12 cells)[1)]		
495	1	1
1170	1	4
1890	2	6
TORKEL 820 + TXL850, 48 V battery (24 cells)[1)]		
499	1	1
1189	1	4
1918	2	6

[1)] Discharge from 2.15 V to 1.8 V per cell

Max. constant current (A)	Number of TORKEL-units	Number of TXL-units
TORKEL 840/860 + TXL830, 24 V battery (12 cells)[1)]		
263	1	1
670	2	2
1005	3	3
TORKEL 840/860 + TXL850, 48 V battery (24 cells)[1)]		
264	1	1
909	2	3
TORKEL 840/860 + TXL870, 110 V battery (54 cells)[1)]		
188	1	1
532	2	4
845	2	8
TORKEL 840/860 + TXL870, 120 V battery (60 cells)[2)]		
194	1	1
557	2	4
895	2	8
TORKEL 840/860 + TXL870, 220 V battery (108 cells)[1)]		
94	1	1
266	2	4
423	2	8

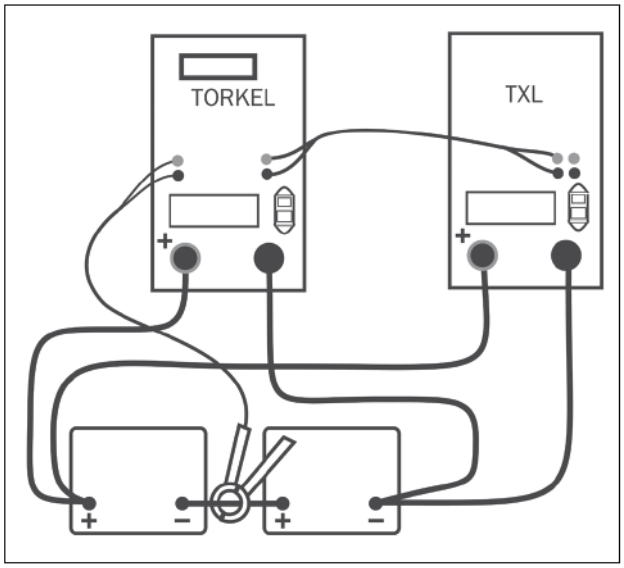
[1)] Discharge from 2.15 V to 1.8 V per cell
[2)] Discharge from 2.15 to 1.75 V per cell

Megger

TXL830, TXL850 and TXL870

Extra load units for TORKEL test system

APPLICATIONS



TORKEL and the extra load TXL

SPECIFICATIONS

Specifications are valid at nominal input voltage and an ambient temperature of +25°C, (77°F). Specifications are subject to change without notice.

Environment

Application field The instrument is intended for use in high-voltage substations and industrial environments.

Temperature Operating
0°C to +40°C
Storage & transport
-40°C to +70°C
Humidity
5% – 95% RH, non-condensing

CE-marking

LVD 2006/95/EC
EMC 2004/108/EC

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 mm
Transport case	265 x 460 x 750 mm
Weight	13 kg
	21.4 kg with transport case

Cable sets

for TXL830 and TXL 850 2 x 3 m, 70 mm^2, 270 A, with cable lug. Max. 100 V. 5 kg

for TXL870 2 x 3 m, 25 mm^2, 110 A, with cable lug. Max. 480 V. 3 kg

Load Section

		TXL830	TXL850	TXL870
Max. voltage d.c.		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
Internal resistance, 3-position selector				
Position 1		**0.275 Ω**	**0.55 Ω**	**4.95 Ω**
Current	100 A	at 27.6 V (12 x 2.3 V)	at 55.2 V (24 x 2.3 V)	-
	78.5 A	at 21.6 V (12 x 1.8 V)	at 43.2 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		**0.138 Ω**	**0.275 Ω**	**2.48 Ω**
Current	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		**0.092 Ω**	**0.184 Ω**	**1.24 Ω**
Current	300 A	at 27.6 V	at 55.2 V (24 x 2.3 V)	-
	235 A	at 21.6 V	43.2 V (24 x 1.8 V)	-
	100 A	-	-	at 124.2 V (54 x 2.3 V)
	78.4 A	-	-	at 97.2 V (54 x 1.8 V)

Ordering information	
Item	Part number
Extra loads for use with TORKEL systems	
TXL830	BS-59093
TXL850	BS-59095
TXL870	BS-59097
Cable sets	
For TXL830 and TXL 850	
2 x 3 m, 70 mm^2, 270 A, with cable lug. Max. 100 V. 5 kg	GA-00554
For TXL870	
2 x 3 m, 25 mm^2, 110 A, with cable lug.Max. 480 V. 3 kg	GA-00552