

TXL830, TXL850 and TXL780

Extra load units for TORKEK test system



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

DESCRIPTION

TXL

These resistive extra loads do not perform any regulating functions.

They are designed for use together with TORKEK battery load units. Their purpose is to provide higher load currents for use in constant current or constant power tests. Together, TORKEK 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 TORKEK measures the total current using a clamp-on ammeter.

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

TORKEK / TXL - systems examples

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

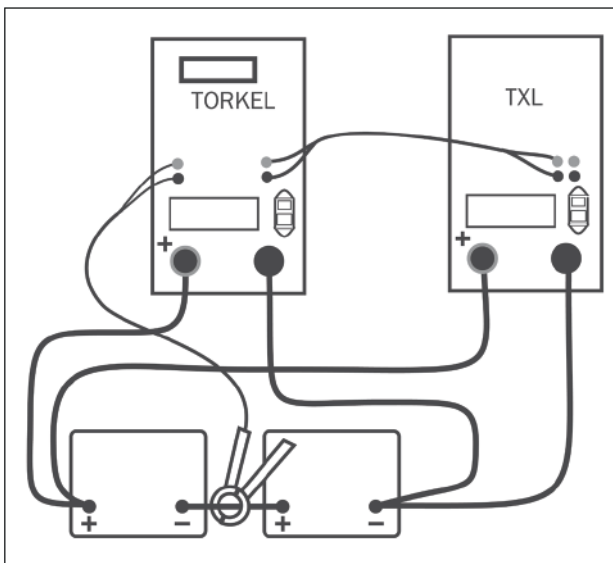
¹⁾ Discharge from 2.15 V to 1.8 V per cell

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

APPLICATIONS



TOR KEL 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 mm², 270 A, with cable lug. Max. 100 V. 5 kg
for TXL870 2 x 3 m, 25 mm², 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 TOR KEL 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

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THAILAND

CERTIFICATION ISO

Registered to ISO 9001:2008 Cert. no. Q 09250
Registered to ISO 14001:2004 Cert. no. EMS 61597

TXL820_TXL850_TXL870_SS_EN_V0
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