

# 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

### 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
<b>TORKEl 820 + TXL830, 12 V battery (6 cells)<sup>1)</sup></b>		
234	1	1
571	1	4
918	1	6
<b>TORKEl 820 + TXL830, 24 V battery (12 cells)<sup>1)</sup></b>		
495	1	1
1170	1	4
1890	2	6
<b>TORKEl 820 + TXL850, 48 V battery (24 cells)<sup>1)</sup></b>		
499	1	1
1189	1	4
1918	2	6

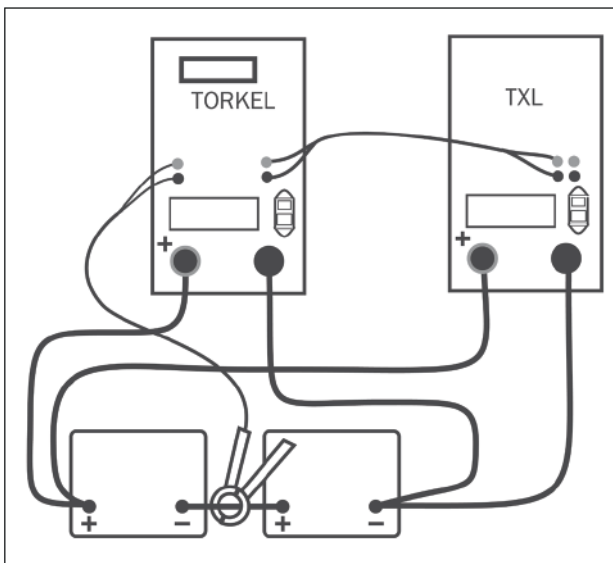
<sup>1)</sup> Discharge from 2.15 V to 1.8 V per cell

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

<sup>1)</sup> Discharge from 2.15 V to 1.8 V per cell

<sup>2)</sup> 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 mm<sup>2</sup>, 270 A, with cable lug. Max. 100 V. 5 kg

for TXL870 2 x 3 m, 25 mm<sup>2</sup>, 110 A, with cable lug. Max. 480 V. 3 kg

**Load Section**

	<b>TXL830</b>	<b>TXL850</b>	<b>TXL870</b>
<b>Max. voltage d.c.</b>	28 V	56 V	140 V / 280 V
<b>Max. current</b>	300 A	300 A	112 A at 140 V 56 A at 280 V
<b>Max. power</b>	8.3 kW	16.4 kW	15.8 kW
<b>Internal resistance, 3-position selector</b>			
<b>Position 1</b>	<b>0.275 Ω</b>	<b>0.55 Ω</b>	<b>4.95 Ω</b>
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)
<b>Position 2</b>	<b>0.138 Ω</b>	<b>0.275 Ω</b>	<b>2.48 Ω</b>
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)	-
<b>Position 3</b>	<b>0.092 Ω</b>	<b>0.184 Ω</b>	<b>1.24 Ω</b>
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 TORHEL systems	
TXL830	BS-59093
TXL850	BS-59095
TXL870	BS-59097
Cable sets	
For TXL830 and TXL 850	
2 x 3 m, 70 mm <sup>2</sup> , 270 A, with cable lug. Max. 100 V. 5 kg	GA-00554
For TXL870	
2 x 3 m, 25 mm <sup>2</sup> , 110 A, with cable lug. Max. 480 V. 3 kg	GA-00552

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**CERTIFICATION ISO**

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

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