Specifications TORKEL 840/860

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 (32°F to +104°F) -40°C to +70°C (-40°F to +158°F) Storage & transport Humidity 5% - 95% RH, non-condensing

CE-marking

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

General

Mains voltage 100 - 240 V AC, 50/60 Hz

Power consumption 150 W

(max)

Protection Thermal cut-outs, automatic overload

protection

Dimensions

Instrument 210 x 353 x 700 mm

(8.3" x 13.9" x 27.6") 265 x 460 x 750 mm

Transport case (10.4" x 18.1" x 29.5")

21.5 kg (47.4 lbs)

Weight 38 kg (83.8 lbs) with accessories and

transport case.

Display

Available languages English, French, German, Spanish,

Swedish

Measurement section

Current measurement

Display range 0.0 - 2999 A

Basic inaccuracy ±(0.5% of reading +0.2 A)

Resolution 0.1 A Internal current measurement 0-300 A Range Input for clamp-on ammeter

Range

mVIA-ratio Software settable, 0.3 to 19.9 mV/A

>1 MΩ Input impedance

Voltage measurement Display range 0.0 - 60 V

Basic inaccuracy ±(0.5% of reading +0.1 V)

Resolution 0.1 V Display range 0.0 - 500 V

Basic inaccuracy ±(0.5% of reading +1 V)

Resolution 0.1 V

Time measurement

Basic inaccuracy ±0.1% of reading ±1 digit

Load section

Max. battery voltage 288 V DC (TORKEL 840) 480 V DC (TORKEL 860)

Max. current 110 A 15 kW Max. power

Load patterns Constant current, constant power,

constant resistance, current or power

profile

Current setting 0-110.0 A (2999.9 A) 10 Power setting 0-15.00 kW (299.99 kW) 11

Resistance setting 0.1-2999.8 Ω

Battery voltage range, 4 ranges, selected automatically at start

TORKEL 840 of test

Battery voltage range, 5 ranges, selected automatically at start

TORKEL 860 of test

Stabilization (For inter-±(0.5% of reading +0.5 A)

nal current measure-

| 0 | Battery voltage | Highest permissible current | Resistor element (Nominal values) |
|---------|--------------------|--------------------------------|--|
| Range 1 | 10 - 27.6 V | 110 A | 0.165 Ω |
| Range 2 | 10 - 55.2 V | 110 A | 0.275 Ω |
| Range 3 | 10 - 144 V | 110 A | 0.55 Ω |

Range 5 29 10 - 480 V 55 A (max power 15 kW) 1) Maximum value for a system with more than one load unit

2) TORKEL 860

Inputs, maximal values

Range 4 10 - 288 V 55 A

EXTERNAL 1 V DC, 300 V DC to ground. Current CURRENT shunt should be connected to the nega-

MEASUREMENT tive side of the battery START/STOP Closing/opening contact

Closing and then opening the contact will start/stop Torkel. It is not possible to keep the contacts in closed position.

3.3 Ω

3.3 Ω

Delay until start 200 - 300 ms Stop delay 100 - 200 ms

480 V DC, 500 V DC to ground Battery 480 V DC, 500 V DC to ground **VOLTAGE SENSE**

SERIAL < 15 V ALARM 250 V DC 0.28 A

28 V DC 8 A 250 V AC 8 A

Outputs, maximal values

START/STOP 5 V, 6 mA TXI Relay contact SERIAL < 15 V ALARM Relay contact