

BU2000 - High Current Booster for T/2000 and T/3000 test equipment

The current output of T/2000 and T/3000 can be increased to up to 2000 A and 4000 A with a new type of optional booster controlled by the T/3000-2000 control unit.

The BU2000 option is an innovative design concept that allows to avoid the power losses due to long cables connections.

To achieve this, the BU2000 transformer is placed very close to the device under test (CT primary side, Circuit Breaker main contacts), thus avoiding losses on the high current cables.

The BU2000 is then connected with a long (up to 20 m) low power control cable to T/2000 or T/3000 unit.

In case of 2 to 4 BU2000 units an Interposing Module is necessary. This module is connected with low power cables to the BU2000 units.

The technical specification of the BU2000 is summarized in the following table:

Number of BU2000 unit	WEIGHT Kg	MAX. LOAD mOhm*	MAX. CURRENT A*	ON time S*	OFF time S*
1	20	1.5	1000	100	700
		0.15	2000	10	300
2	30	2.4	1000	700	1700
		0.6	2000	30	450
		0	3000	10	300
4	50	12	1000	100	1700
		5	2000	10	450
		6	1000	700	1700
		2.4	2000	30	450
		0.8	3000	10	300
		0.6	4000	4	200
		2.6	1000	INFINITE	INFINITE
		0.6	2000	700	1700
		0	3000	100	700

*With mains voltage of 230 V and ambient temperature of 23°C (+/-5°C).

Characteristics of the output transformers:

BU2000 Main Module:

- Supply voltage: 230 V.
- Voltage output (one turn): 0,91 V.
- Steady power: 1000 VA.



BU2000 Main Module with high current clamp

- Connection of the transformer: by a cable, 20 m long, terminated with connectors on both sides.
- Output current metering: by a current transformer with ratio 1000//1. Accuracy class: 0.5%.
- Connection of the CT: by a cable, 20 m long, that includes a shunt, rated 0.1 Ohm, accuracy 0.1%.

BU2000 Auxiliary Module:

- Supply voltage: 230 V.
- Voltage output (one turn): 0,89 V.
- Steady power: 1000 VA.
- Connection of the transformer: by a cable, 20 m long, terminated with connectors on both sides.

High current cables:

- Number of conductors: 2.
- Conductors cross section: 95 sq. mm.
- Conductors type: high flexibility.
- Conductors length: the total length of the cables (not considering the transformers) is 1,4 m.

High current clamps:

- Number of clamps: 2.
- Material: aluminium.
- Opening range: from 5 to 60 mm.
- Short-circuit rating current: 41 kA / 1 s.
- Applicable standard: EN 61230.
- Hole to lift the clamp on the conductor, and ring to screw it up.

The option comes in a suitable transport case.



BU2000 Auxiliary Module

Characteristics of the Interposing Module:

Mains connection: by a 64 A rated connector, provided.

- Power-on: by means of a circuit breaker rated 64 A.
- Coarse current adjustment: by means of a four-position selector switch.
- Connections to T3000: power supply cord; Variable voltage output; auxiliary contact, timer START input.
- Capable to drive up to four transformers.
- Weight: 5 kg;
- Dimensions:

Note:

in case of one BU2000 Main, the Interposing Module is not necessary.

BU2000 Accessories



BU2000 - connecting cable



BU2000 - Interposing Module



BU2000 - High Current clamp