

Automatic battery test-bench BTB12-24V165A

- Saving time – charging, leveling and discharging with just one battery connection.
- Accurate battery A·h or W·h capacity measurement according to IEC 60896-21 and 22.
- Test log file available over LAN.

Applications

Capacity testing of variety of 12 or 24 V batteries and super-capacitor modules¹ used for backup power of power plants, substations, banking, media, telecommunications, defense equipment, hospitals, electric car charging stations, computer servers, data banks, vehicles, research equipment etc.

Advantages

1. Smart, flexible and fast

Variety of battery types – as open, sealed, gel and AGM lead acid or user type – can be tested in manual or automatic mode. This means that the battery will be fully charged, stabilized and cooled down and discharged automatically according to IEC 60896-21 and 22. Charging is possible in boost, absorption, float or recovery mode. Discharge is possible with constant current or constant power mode. The testing process is logged and stored in short intervals. The csv protocols are accessible over LAN. At the end of testing the actual A·h or W·h value of the device under test is also displayed on bright OLED display of BTB.



2. Precise

BTB performs the battery capacitance measurement directly using its precise current, voltage and temperature measurement sensors. The direct measurement gives the most accurate value of remained capacity of the battery.

3. Tailored for your application

The hard- and software of BTB can be tailored according to your requirements.

Guarantee time: 2 years

¹ 24 V and ultra capacitor testing versions are under development

ET-EX Machina

Address: Mäepealse 2,
12618 Tallinn
ESTONIA



info@etexm.eu
+372 655 1312
www.etexm.eu

Features

Rated supply voltage:	1 phase 115 – 277 V 47 – 63 Hz L, N, PE
Rated supply power and current:	Ca 300 W, current up to ca 2 (max 6) A depending on the charge current and supply voltage values.
Rated load voltage:	Up to 15 V DC battery „-“ or „+“ pole can be earthed to PE terminal on backside
Rated load current:	165 A DC
Ethernet connection:	female RJ45 connector Cat5e on the front side, http protocol for web browser
http protocol for web browser	output data in csv format
Charging voltage and current:	up to 15 A at 12 V range
Output fuses	200 A
Residual current	< 5 mA
Output load terminals:	plug type
Output cables:	2 x 1.5 m flexible cables 1 x 50 mm ²
Adjustment accuracy in constant current CC mode:	± 1 % of the selected constant current in the range 10 A to 165 A
Adjustment accuracy in constant power CP mode:	± 1.5 % from 100 to 2000 W
Adjustment resolution of discharge voltage limit:	0.1 V, accuracy ± 0.5 %
Protections:	over-current, over-temperature, battery over-temperature
Alarms:	beep, dry NO contact
Noise level during operation:	less than 75 db A
Dimensions w, h, d, mm:	482.6 x 188.5 x 780 (19" x 4HU)
Weight:	Ca 27 kg without output cables
Ambient temperature:	Operation: normally between 20 °C and 25 °C (0 ... 40 °C) storage: -25 ... 70 °C
Compliance:	CE

Preprogrammed battery types to be tested: FB14L-A2, SWL1800, SWL750, PS-1235, 12HX35, NP-5-12, EP-5-12T2, BPL 5-12 T2, B9679, L36-100, 600-25-L5, 572/S4-007, 564/EA640, 560/EB604, 555/MF555, 544/MF544, 514/YB14LA2. Other battery types can be pre programmed on request or entered by user.

BTB 12_165 datasheet ENG v1

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