



Description

BLT-12VF is a battery load tester for use by service personnel who require a simple, low-cost method of load testing batteries - either on site or on the bench.

Ideal for alarm technicians and general technical staff, the BLT-12VF should be considered an essential part of every technician's toolkit.

For end-users, batteries are replaced when the technician is on site, avoiding a second costly site visit.

For the technician, it quickly pays for itself through increased battery sales.

Thermal Protection

BLT-12VF will get warm during use. This is normal.

Please observe maximum number of tests per hour and note that the unit will automatically shut down if it gets too hot.

If this occurs, the test will abort and the user should wait for 10-15 minutes before trying again.

Specifications

Parameter	Min	Typ	Max	Units
2.5A Test Current	2.40	2.50	2.60	A
5.0A Test Current	4.70	5.00	5.30	
Test Duration	14.0	15.0	16.0	Sec
Test Fail Voltage	11.35	11.50	11.65	V
2.5A Max tests per hour			10	-
5.0A Max tests per hour			5	-
Dimensions			90x50x28h	Mm

Features

- ✓ Easy to use 12V battery load tester.
- ✓ Selectable load 2.5A or 5.0A.
- ✓ Automatic timed test 15 secs.
- ✓ Preset pass/fail threshold.
- ✓ Pass = Green, Fail = Red.
- ✓ Meets or exceeds NZS 4512:2021 (to 25Ahr)
- ✓ Solid state thermal protection.
- ✓ Consistent, simple test procedure.

Operation

- a) Select desired load (2.5A or 5.0A).
- b) Connect to 12V battery (red = +ve).
- c) **TESTING:**
GREEN : test in progress (must be on for 15 secs).
OFF : test complete, check OK/FAIL.
RED : device overtemperature. Wait 10 mins, retry.
- d) **OK/FAIL:**
GREEN : Battery OK.
RED : Battery Bad, replace.

Important: If you do not see the TESTING LED turn GREEN for 15 secs then turn OFF, there is a fault .

Periodic Test of BLT-12VF

For critical applications (including but not limited to fire alarm systems), the BLT-12VF should be tested annually using a variable voltage bench power supply (12VDC, 6A min) with voltage and current displays. Test as follows and record results:

- a) Set voltage to 12.0 VDC.
- b) Set current limit to 6.0A.
- c) Set BLT-12VF Test Current to 2.5A.
- d) Connect BLT-12VF to bench supply, confirm test runs and Test Current correctly drawn.
- e) Test should pass.
- f) Set voltage to 11.3V.
- g) Repeat test.
- h) Test should fail.
- i) Set BLT-12VF Test Current to 5.0A and repeat steps (d) to (h).

This product is proudly designed in New Zealand by TMD Consultants.

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Warranty and Disclaimer

All information provided in this document is carefully prepared and offered in good faith as a guide for the use and servicing of this product. We accept no responsibility for the incorrect installation or use of this product and reserve the right to change specifications and installation data at any time and without notice. Liability of TMD Consultants or any party involved in the design and/or manufacture of this product shall be limited to the replacement of faulty product returned to us within the warranty period (12 months) with proof of purchase. By using this product, you agree to these terms.