



# CT CANTEST 48 / 100

## Automatic Battery Tester

Designed to perform a fully automated real-time battery load test with constant current flow. Client defined battery capacity, with discharge characteristics of individual battery cells, can be tested without disconnecting the battery string from the load.

### Application

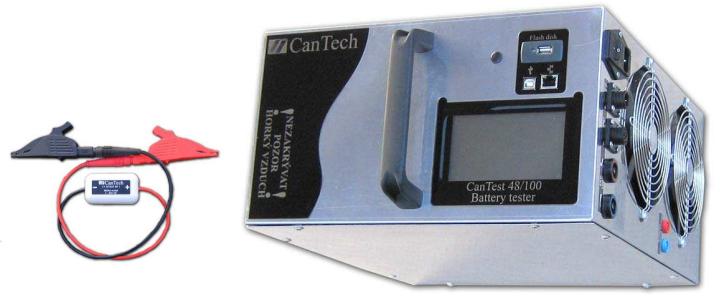
CT CANTEST 48/100 provides the necessary testing and analytical tool for all battery applications in the field of telecommunications, GSM and radio-communications. Or any other battery applications having nominal battery voltages between 12VDC and 48VDC. A comprehensive test report provides detailed results of each individual battery.

### Feature characteristics

CT CANTEST 48/100 is a unique battery testing instrument with a built-in current load, powered directly from a standard 230VAC source. Equipped with a set of test cables which may selectively be connected either to the end contacts of a battery string or, to individual battery cells. A fully automated battery test starts after programming all of the necessary data specifying, discharge current, minimum battery cell voltage, and time of the test. The test ends automatically after the specified minimum battery string or individual battery cell value has been reached, or, the chosen test time is reached. A detailed report is then produced.

### Attractive user-friendly design

Unique characteristics of the CT CANTEST 48/100 allow for a total performance analyses while keeping the operational functions simple. Its compact but robust design makes it suitable for indoor as well as field operations. Included in a basic unit are test cables used to connect to the end connectors of a battery string. A recommended optional test module further provides additional cables for up to 24 individual battery cells. The range of required test values is totally user selectable.



Constant discharge current built-in load
User-friendly with detailed analyses report
Modular attractive design
User programmable test settings
Fully automatic S/W controlled
Optimizes battery performance and health
Optimizes battery investment

### Economically attractive

Competitively priced product used as a management tool to optimize the client's battery investment. Real-time performed battery tests verify expected performance while setting a stage for any possible maintenance decisions now based on exact results rather than pure assumptions. Cost savings may be achieved by identifying and exchanging only defective battery, thus extending the lifespan and performance of the overall battery string.

### Availability

Based on application, the following CT CANTEST family of product models is also available:

**CT CANTEST 24/200** – telecom/radio communications application using 24VDC with discharge current up to 200A.

**CT CANTEST 80/200** – traction battery application using 80VDC with discharge current up to 200A.

**CT CANTEST 216/100** – enterprise industry control systems back-up power application using 108/216VDC with discharge current up to 100A.

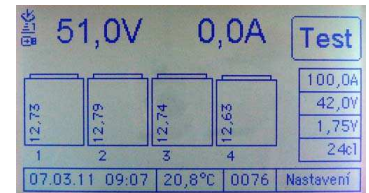
**CT CANTEST 35/25** – railway industry Ni-Cad battery application using 28.8VDC with discharge current up to 25A.

### Best results.....always

CanTech prides itself in performance and quality of its products being **ISO 9001:2008** and **CE certified**.



**ISO 9001:2008 a OHSAS 18001:2007**  
TAYLLOR & COX s.r.o.



### SPECIFICATIONS

Electrical		Environmental	
Input power	110 VAC/60Hz	Operating temperature	+5 to +30 ° C
Tested battery nominal voltage	12, 24, 48 VDC	Storage temperature	-10 to +50 ° C
Current measurement accuracy	2.5 %	Humidity (non-condensing)	0 % to 90 %
Voltage measurement accuracy	1 %	<b>Connections</b>	
Temperature measurement accuracy	0.5 ° C	Flex power cord	230 VAC
Min. discharge current	2 A	Battery connecting	Battery connectors
Max. discharge current	100 A	Test module with cables	Optional
Discharge current setting increments	0.1 A	<b>Communications and PC requirements</b>	
Recording time	10 to 255 sec.	Ethernet or USB (Optional), Operating system > Windows XP	
Memory capacity	up to 2000 tests	System test programs CD, Monitor's resolution min.800x600	
Built-in excessive battery discharge protection		<b>Standards</b>	
Built-in load with overload protection		ISO 9001:2009 certified	EN 61010-1
Built-in internal overheating protection		CE certified	EN 55014-1,2
User programmable end-test voltage threshold		<b>Ordering information</b>	
Optional discharge characteristics measurement of individual cells.		Description	Automatic Battery Tester
<b>Mechanical</b>		Model	CT CANTEST 48/100
Dimensions (mm)	377W x 210H x 443D	Shipment	ExWorks Sumperk, CR.
Weight	14 kg		

### TEST REPORT SAMPLE

#### Capacitive test of batteries

Location: CanTech

Order number:

Battery numbers	1	2	3	4
Voltage	13,65	13,65	13,63	13,65
Cond. before t	876	852	840	828
Cond. after test	438	444	402	420
End voltage:	11,07	10,98	10,48	10,93

Discharge test number: q50-12FA1

Date: 23.8.04

Time: 8:00:00

Battery type: pbq50-12FA

Test type: 180 min

Discharge current: 13,5 A

End voltage: 42 V

Current hysteresis: 0,1 A

Test sequence: 60 s

Test duration: 185,0 min

Temperature: 17,3°C

Measured by: Zikik

Relative capacity: 164,2 min

Capacity: **112,7 %**

Note

