

Battery Comparison

Select Product Comparison. (Click on Selection)



BITE2 vs Alber



BITE2 vs Midtronics



BITE2 vs HIOKI



BITE2 vs Fluke



BITE5 vs Alber



BITE5 vs Midtronics



BITE5 vs HIOKI



BITE5 vs Fluke



BITE5 ADVANCED vs Alber



BITE5 ADVANCED vs Midtronics



BITE5 ADVANCED vs HIOKI



BITE5 ADVANCED vs Fluke

Battery Comparison

Brand	Megger	Alber
Model	BITE2/2P	CRT-400 Cellcorder
Picture		
Cell Voltage	●	●
Cell Resistance		●
Cell Impedance	●	
Cell Conductance		
Strap Resistance	●	●
Ripple Current	●	
DC Float Current		
Escape Current		
Temperature		
Capacity Testing DC Measurements		
Measures DC Voltage		
Measures AC Voltage		
Kelvin Clips		●
Single Tip Probes	●	●
Duplex Probes		
Concentric Probes		
Probe Extenders	●	●
Display	LCD	LCD
Memory	2000 readings / 300 test	1 MB per 71 strings with 256 cells
Removable Memory		USB Stick
Printer	BITE2P Only	Optional
Power	100 to 130 V, 210 to 250 V, 50/60 Hz	4 cell - 8800 mAh lithium ion
Dimensions (inches)	T 6.5 x 14 x 10.6 R 7.25 x 11.25 x 2	12 x 7 x 3
Weight (pounds)	T = 17 / R = 1.6	3.4
RS-232 Com Port	●	
USB Port		
Bluetooth Port		Optional Earpiece
Auto Detect Cell-Strap		
On Board Data Analysis		
Accuracy	1%	
Max Voltage	25.0VDC	20.0VDC
Test Current	10A	35A
Temperature Operating Range	0 to 40C	0 to 40C
Humidity @ 40C >= 90%	90%NC	50%NC



BITE2 Advantages

Both the BITE2 and the Alber test with high current. They can both be used to test large, flooded lead acid cells. However, the Alber unit draws the high current from the cells, the BITE2 does not. This means that the Alber discharges the cell during a test. Therefore, you cannot repeat a measurement until the battery has recharged. This means if you make a mistake during testing you must wait for the string to recharge before you can re-take any measurements.

If you wish to test inter-cell connections with the Alber, then you must use a complicated 3 probe connection routine. It is easy to make a mistake using this method. The other option eliminates the 3 leads but requires 2 passes through the string, greatly increasing test time. The Alber cannot be used on NiCD batteries unless special spade leads are used. Since NiCD battery posts are not normally accessible, the measurements need to be made on the hardware. Since the Alber unit draws high current from the cells, it creates a large voltage drop across the hardware. This means you measure the resistance of the hardware, not the battery. The spade adapters try to allow the user to slide under the hardware. This is difficult and not always possible. Since the BITE2 injects current through the entire string this is not an issue. The test current does not go through the hardware, so it can measure NiCD batteries.



Battery Comparison

Brand	Megger	Midtronics
Model	BITE2/2P	Celltron Advantage
Picture		
Cell Voltage	●	●
Cell Resistance		
Cell Impedance	●	
Cell Conductance		●
Strap Resistance	●	●
Ripple Current	●	
DC Float Current		
Escape Current		
Temperature		●
Capacity Testing DC Measurements		
Measures DC Voltage		
Measures AC Voltage		
Kelvin Clips		●
Single Tip Probes	●	
Duplex Probes		●
Concentric Probes		
Probe Extenders	●	●
Display	LCD	LCD
Memory	2000 readings / 300 test	14000 test
Removable Memory		●
Printer	BITE2P Only	Protocol for Printer
Power	100 to 130 V, 210 to 250 V, 50/60 Hz	7.2V, 2500mAh, NiMH rechargeable
Dimensions (inches)	T 6.5 x 14 x 10.6 R 7.25 x 11.25 x 2	11 x 4 x 3
Weight (pounds)	T = 17 / R = 1.6	2.6
RS-232 Com Port	●	
USB Port		●
Bluetooth Port		
Auto Detect Cell-Strap		
On Board Data Analysis		●
Accuracy	1%	2%
Max Voltage	25.0VDC	20.0VDC
Test Current	10A	200mA
Temperature Operating Range	0 to 40C	0 to 40C
Humidity @ 40C >= 90%	90%NC	95%NC

BITE2 Advantages

The BITE2 tests with high current, the Midtronics does not. The BITE2 can be used to test large, flooded lead acid cells, which have low impedance values. The Midtronics unit does not have the resolution to see the small changes.

Any inter-cell measurements made with the Midtronics unit will be relative. (Compared to previous measurements.) The BITE2 injects current through the entire string creating a uniform current density. This means the inter-cell measurements will be absolute.

The low-test current used by Midtronics makes this unit susceptible to string noise. This can cause fluctuations in measurements. The high-test current used by the BITE2 makes the BITE2 far less susceptible to noise.

The Midtronics unit cannot be used on NiCD batteries. NiCD battery posts are not normally accessible. Measurements are made on the hardware. The Midtronics will inject current through the hardware. This creates a voltage drop across the hardware. This means you measure the resistance of the hardware, not the battery. The BITE2 injects current through the entire string. The test current does not go through the hardware, so it can measure NiCD batteries.



Battery Comparison

Brand	Megger	HIOKI
Model	BITE2/2P	3554
Picture		
Cell Voltage	●	●
Cell Resistance		
Cell Impedance	●	●
Cell Conductance		
Strap Resistance	●	
Ripple Current	●	
DC Float Current		
Escape Current		
Temperature		●
Capacity Testing DC Measurements		
Measures DC Voltage		
Measures AC Voltage		
Kelvin Clips		
Single Tip Probes	●	
Duplex Probes		●
Concentric Probes		●
Probe Extenders	●	
Display	LCD	LCD
Memory	2000 readings / 300 test	4800 sets
Removable Memory		
Printer	BITE2P Only	
Power	100 to 130 V, 210 to 250 V, 50/60 Hz	8 AA Alkaline Batteries
Dimensions (inches)	T 6.5 x 14 x 10.6 R 7.25 x 11.25 x 2	7.6 x 4.8 x 2.2
Weight (pounds)	T = 17 / R = 1.6	1.75
RS-232 Com Port	●	
USB Port		●
Bluetooth Port		
Auto Detect Cell-Strap		
On Board Data Analysis		
Accuracy	1%	1%
Max Voltage	25.0VDC	60.0VDC
Test Current	10A	100mA
Temperature Operating Range	0 to 40C	0 to 40C
Humidity @ 40C >= 90%	90%NC	80%NC

BITE2 Advantages

The BITE2 tests with high current, the HIOKI does not. The BITE2 can be used to test large, flooded lead acid cells, which have low impedance values. The HIOKI unit does not have the resolution to see small changes in these large cells.

The HIOKI does not measure inter-cell (strap) resistance. The BITE2 does. NOTE: This is required for any NERC compliant testing.

The low-test current used by HIOKI makes this unit susceptible to string noise. The low signal to noise ratio, can cause fluctuations in the cell measurement. The high-test current used by the BITE2 makes the BITE2 far less susceptible to noise.

The HIOKI unit cannot be used on NiCD batteries. Since NiCD battery posts are not normally accessible, the measurements are made on the hardware. The HIOKI will inject current through the hardware. This creates a voltage drop across the hardware. This means you measure the resistance of the hardware, not the battery. The BITE2 injects current through the entire string. The test current does not go through the hardware, so it can measure NiCD batteries.



Battery Comparison

Brand	Megger	Fluke	Fluke
Model	BITE2/2P	BT-510	BT-521
Picture			
Cell Voltage	●	●	●
Cell Resistance			
Cell Impedance	●	●	●
Cell Conductance			
Strap Resistance	●		●
Ripple Current	●		●
DC Float Current			●
Escape Current			
Temperature			●
Capacity Testing DC Measurements			
Measures DC Voltage		1000Vdc	1000Vdc
Measures AC Voltage		600Vac	600Vac
Kelvin Clips			
Single Tip Probes	●		
Duplex Probes		●	●
Concentric Probes		●	●
Probe Extenders	●	Optional	Optional
Display	LCD	LCD	LCD
Memory	2000 readings / 300 test		
Removable Memory			
Printer	BITE2P Only		
Power	100 to 130 V, 210 to 250 V, 50/60 Hz	7.4V,3Ah, Rechargeable Lithium	7.4V,3Ah, Rechargeable Lithium
Dimensions (inches)	T 6.5 x 14 x 10.6 R 7.25 x 11.25 x 2	9.0 x 4.0 x 2.0	9.0 x 4.0 x 2.0
Weight (pounds)	T = 17 / R = 1.6	1.9	1.9
RS-232 Com Port	●		
USB Port		●	●
Bluetooth Port			●
Auto Detect Cell-Strap			
On Board Data Analysis			
Accuracy	1%	1%	1%
Max Voltage	25.0VDC	60VDC	60VDC
Test Current	10A	100mA	100mA
Temperature Operating Range	0 to 40C	0 to 40C	0 to 40C
Humidity @ 40C >= 90%	90%NC	80%NC	80%NC

BITE2 Advantages

The BITE2 tests with high current, the Fluke does not. Fluke does not have resolution for large, flooded lead acid cells, which have low impedance values.



The Fluke BT510 does not measure inter-cell (strap) resistance. The BITE2 does. NOTE: This is required for any NERC compliant testing. NOTE: The BT521 does measure straps but only with 100mA. This is insufficient current for a good reading.

The low-test current used by Fluke makes this unit susceptible to string noise.

The Fluke unit cannot be used on NiCD batteries. Since NiCD battery posts are not normally accessible, the measurements are made on the hardware. The Fluke will inject current through the hardware. This creates a voltage drop across the hardware. This means you measure the resistance of the hardware, not the battery. The BITE2 injects current through the entire string. The test current does not go through the hardware, so it can measure NiCD batteries.



Battery Comparison

Brand	Megger	Alber
Model	BITE5	CRT-400 Cellcorder
Picture		
Cell Voltage	●	●
Cell Resistance		●
Cell Impedance	●	
Cell Conductance	●	
Strap Resistance		●
Ripple Current	●	
DC Float Current	●	
Escape Current		
Temperature	●	
Capacity Testing DC Measurements	●	
Measures DC Voltage	1000Vdc	
Measures AC Voltage	600Vac	
Kelvin Clips	●	●
Single Tip Probes		●
Duplex Probes	●	
Concentric Probes	●	
Probe Extenders	●	●
Display	Touchscreen	LCD
Memory	16G	1 MB per 71 strings with 256 cells
Removable Memory	●	USB Stick
Printer		Optional
Power		4 cell - 8800 mAh lithium ion
Dimensions (inches)	240 x 160 x 65	12 x 7 x 3
Weight (pounds)	1.98	3.4
RS-232 Com Port		
USB Port	●	
Bluetooth Port		Optional Earpiece
Auto Detect Cell-Strap		
On Board Data Analysis	●	
Accuracy	1%	
Max Voltage	200Vdc	20.0VDC
Test Current	100mA	35A
Temperature Operating Range	0 to 50C	0 to 40C
Humidity @ 40C >= 90%	85%NC	50%NC

BITE5 Advantages

The BITE5 can test battery packs up to 200Vdc - Alber cannot.

The BITE5 can test Lithium-Ion batteries - Alber cannot.

The BITE5 can measure battery temperature - Alber cannot.

The BITE5 offers concentric probes for batteries with terminal caps - Alber does not.

The BITE5 can measure DC float current - Alber cannot.

The BITE5 has a large color touchscreen display - Alber does not.



The BITE5 can trend historical data - Alber cannot.

The BITE5 can measure DC voltages up to 1000V - Alber cannot.

The BITE5 supports discharge testing - Alber does not.



Battery Comparison

Brand	Megger	Midtronics
Model	BITE5	Celltron Advantage
Picture		
Cell Voltage	●	●
Cell Resistance		
Cell Impedance	●	
Cell Conductance	●	●
Strap Resistance		●
Ripple Current	●	
DC Float Current	●	
Escape Current		
Temperature	●	●
Capacity Testing DC Measurements	●	
Measures DC Voltage	1000Vdc	
Measures AC Voltage	600Vac	
Kelvin Clips	●	●
Single Tip Probes		
Duplex Probes	●	●
Concentric Probes	●	
Probe Extenders	●	●
Display	Touchscreen	LCD
Memory	16G	14000 test
Removable Memory	●	●
Printer		Protocol for Printer
Power		7.2V, 2500mAh, NiMH rechargeable
Dimensions (inches)	240 x 160 x 65	11 x 4 x 3
Weight (pounds)	1.98	2.6
RS-232 Com Port		
USB Port	●	●
Bluetooth Port		
Auto Detect Cell-Strap		
On Board Data Analysis	●	●
Accuracy	1%	2%
Max Voltage	200Vdc	20.0VDC
Test Current	100mA	200mA
Temperature Operating Range	0 to 50C	0 to 40C
Humidity @ 40C >= 90%	85%NC	95%NC

BITE5 Advantages

The BITE5 can test battery packs up to 200Vdc - Midtronics cannot.

The BITE5 can test Lithium-Ion batteries - Midtronics cannot.

The BITE5 can measure AC Ripple current - Midtronics cannot.

The BITE5 has a large color touchscreen display - Midtronics does not.

The BITE5 can measure DC float current - Midtronics cannot.

The BITE5 can trend historical data - Midtronics cannot.



The BITE5 supports discharge testing - Midtronics does not.

The BITE5 offers an optional hydrometer - Midtronics does not.

The BITE5 offers lighted extender probes - Midtronics does not.



Battery Comparison

Brand	Megger	HIOKI
Model	BITE5	3554
Picture		
Cell Voltage	●	●
Cell Resistance		
Cell Impedance	●	●
Cell Conductance	●	
Strap Resistance		
Ripple Current	●	
DC Float Current	●	
Escape Current		
Temperature	●	●
Capacity Testing DC Measurements	●	
Measures DC Voltage	1000Vdc	
Measures AC Voltage	600Vac	
Kelvin Clips	●	
Single Tip Probes		
Duplex Probes	●	●
Concentric Probes	●	●
Probe Extenders	●	
Display	Touchscreen	LCD
Memory	16G	4800 sets
Removable Memory	●	
Printer		
Power		8 AA Alkaline Batteries
Dimensions (inches)	240 x 160 x 65	7.6 x 4.8 x 2.2
Weight (pounds)	1.98	1.75
RS-232 Com Port		
USB Port	●	●
Bluetooth Port		
Auto Detect Cell-Strap		
On Board Data Analysis	●	
Accuracy	1%	1%
Max Voltage	200Vdc	60.0VDC
Test Current	100mA	100mA
Temperature Operating Range	0 to 50C	0 to 40C
Humidity @ 40C >= 90%	85%NC	80%NC

BITE5 Advantages

The BITE5 can test battery packs up to 200Vdc - HIOKI cannot.

The BITE5 can test Lithium-Ion batteries - HIOKI cannot.

The BITE5 can measure AC Ripple current - HIOKI cannot.

The BITE5 has a large color touchscreen display - HIOKI does not.

The BITE5 can measure DC float current - HIOKI cannot.

The BITE5 can trend historical data - HIOKI cannot.




The BITE5 can measure DC voltages up to 1000V - HIOKI cannot.

The BITE5 supports discharge testing - HIOKI does not.

The BITE5 offers an optional hydrometer - HIOKI does not.



Battery Comparison

Brand	Megger	Fluke	Fluke
Model	BITE5	BT-510	BT-521
Picture			
Cell Voltage	●	●	●
Cell Resistance			
Cell Impedance	●	●	●
Cell Conductance	●		
Strap Resistance			●
Ripple Current	●		●
DC Float Current	●		●
Escape Current			
Temperature	●		●
Capacity Testing DC Measurements	●		
Measures DC Voltage	1000Vdc	1000Vdc	1000Vdc
Measures AC Voltage	600Vac	600Vac	600Vac
Kelvin Clips	●		
Single Tip Probes			
Duplex Probes	●	●	●
Concentric Probes	●	●	●
Probe Extenders	●	Optional	Optional
Display	Touchscreen	LCD	LCD
Memory	16G		
Removable Memory	●		
Printer			
Power		7.4V,3Ah, Rechargeable Lithium	7.4V,3Ah, Rechargeable Lithium
Dimensions (inches)	240 x 160 x 65	9.0 x 4.0 x 2.0	9.0 x 4.0 x 2.0
Weight (pounds)	1.98	1.9	1.9
RS-232 Com Port			
USB Port	●	●	●
Bluetooth Port			●
Auto Detect Cell-Strap			
On Board Data Analysis	●		
Accuracy	1%	1%	1%
Max Voltage	200Vdc	60VDC	60VDC
Test Current	100mA	100mA	100mA
Temperature Operating Range	0 to 50C	0 to 40C	0 to 40C
Humidity @ 40C >= 90%	85%NC	80%NC	80%NC

BITE5 Advantages

The BITE5 can test battery packs up to 200Vdc - Fluke cannot.

The BITE5 can test Lithium-Ion batteries - Fluke cannot.

The BITE5 can measure AC Ripple current - Fluke cannot.

The BITE5 has a large color touchscreen display - Fluke does not.

The BITE5 can measure DC float current - Fluke cannot.



The BITE5 can trend historical data -Fluke cannot.

The BITE5 supports discharge testing - Fluke does not.

The BITE5 offers an optional hydrometer - Fluke does not.



Battery Comparison

Brand	Megger	Alber	BITE5 ADVANCED ADVANTAGES
Model	BITE5 ADVANCED	CRT-400 Cellcorder	
Picture			
Cell Voltage	●	●	Test batteries up to 500Vdc
Cell Resistance		●	Supports Lithium Ion
Cell Impedance	●		Measures battery temperature
Cell Conductance	●		Measures ripple voltage and current
Strap Resistance	●	●	Measures DC Float Current
Ripple Current	●		Touchscreen
DC Float Current	●		Measures DC Voltages (1000Vdc)
Escape Current	●		Ability to Retest a Cell
Temperature	●		Supports Discharge Testing
FRA Analysis			On Board Data Analysis
Capacity Testing Support	●		Optional Concentric Probes
DC Voltage Limits	●		Optional Bluetooth
RFID Tag Support	●		RFID reader
Logging Support	●		Supports logging (Z, V and Temp.)
Measures DC Voltage	1000Vdc		Optional lighted extension probes
Measures AC Voltage	600Vac		
Kelvin Clips		●	
Single Tip / Clip Probes		●	
Double Tip Probes	●		
Concentric Probes	●		
Probe Extenders	●	●	
Display	Touchscreen	LCD	
Removable Memory	●	USB Stick	
Printer	Optional	Optional	
USB Port	●		
Bluetooth Port	●	Optional Earpiece	
IR Port		●	
Ability to Retest a Cell	●		
Auto Detect Cell-Strap	●		
On Board Data Analysis	●		
Accuracy	1.00%		
Max Cell Voltage	500Vdc	20.0VDC	
Test Current	700mA	35A	
Temperature Operating Range	0 to 50C	0 to 40C	
Humidity @ 40C >= 90%	85%NC	50%NC	





Battery Comparison

Brand	Megger	Midtronics	BITE5 ADVANCED ADVANTAGES
Model	BITE5 ADVANCED	Celltron Advantage	
Picture			<p>Test batteries up to 500Vdc</p> <p>Supports Lithium Ion</p> <p>Measures battery temperature</p> <p>Measures ripple voltage and current</p> <p>Measures DC Float Current</p> <p>Touchscreen</p> <p>Measures DC Voltages (1000Vdc)</p> <p>Supports Discharge Testing</p> <p>On Board Data Analysis</p> <p>Optional Concentric Probes</p> <p>Optional Hydrometer</p> <p>Optional Bluetooth</p> <p>Removeable memory</p> <p>RFID reader</p> <p>Supports logging (Z, V and Temp.)</p> <p>Optional Printer</p> <p>Optional lighted extension probes</p>
Cell Voltage	●	●	
Cell Resistance			
Cell Impedance	●		
Cell Conductance	●	●	
Strap Resistance	●	●	
Ripple Current	●		
DC Float Current	●		
Escape Current	●		
Temperature	●	●	
FRA Analysis		●	
Capacity Testing Support	●		
DC Voltage Limits	●	●	
RFID Tag Support	●		
Logging Support	●		
Measures DC Voltage	1000Vdc		
Measures AC Voltage	600Vac		
Kelvin Clips		●	
Single Tip / Clip Probes			
Double Tip Probes	●	●	
Concentric Probes	●		
Probe Extenders	●	●	
Probe Display			
Display	Touchscreen	LCD	
Removable Memory	●	●	
Printer	Optional	Protocol for Printer	
USB Port	●	●	
Bluetooth Port	●		
IR Port			
Ability to Retest a Cell	●	●	
Auto Detect Cell-Strap	●		
On Board Data Analysis	●	●	
Accuracy	1.00%	2.00%	
Max Cell Voltage	500Vdc	20.0VDC	
Test Current	700mA	200mA	
Temperature Operating Range	0 to 50C	0 to 40C	
Humidity @ 40C >= 90%	85%NC	95%NC	



Battery Comparison

Brand	Megger	HIOKI
Model	BITE5 ADVANCED	3554
Picture		
Cell Voltage	●	●
Cell Resistance		
Cell Impedance	●	●
Cell Conductance	●	
Strap Resistance	●	
Ripple Current	●	
DC Float Current	●	
Escape Current	●	
Temperature	●	●
FRA Analysis		
Capacity Testing Support	●	
DC Voltage Limits	●	●
RFID Tag Support	●	
Logging Support	●	
Measures DC Voltage	1000Vdc	
Measures AC Voltage	600Vac	
Kelvin Clips		
Single Tip / Clip Probes		
Double Tip Probes	●	●
Concentric Probes	●	●
Probe Extenders	●	
Display	Touchscreen	LCD
Removable Memory	●	
Printer	Optional	
USB Port	●	●
Bluetooth Port	●	
IR Port		
Ability to Retest a Cell	●	
Auto Detect Cell-Strap	●	
On Board Data Analysis	●	
Accuracy	1.00%	1%
Max Cell Voltage	500Vdc	60.0VDC
Test Current	700mA	100mA
Temperature Operating Range	0 to 50C	0 to 40C

BITE5 ADVANCED ADVANTAGES

Test batteries up to 500Vdc

Supports Lithium Ion

Tests Intercell (Strap connections)

Measures ripple voltage and current

Measures DC Float Current

Touchscreen

Measures DC Voltages (1000Vdc)

Supports Discharge Testing

On Board Data Analysis

Optional Concentric Probes

Optional Hydrometer

Optional Bluetooth

Removeable memory

RFID reader

Supports logging (Z, V and Temp.)

Optional Printer

Optional lighted extension probes



Battery Comparison

Brand	Megger	Fluke	Fluke	BITE5 ADVANCED ADVANTAGES
Model	BITE5 ADVANCED	BT-510	BT-521	
Picture				BITE5 ADVANCED ADVANTAGES Test batteries up to 500Vdc Supports Lithium Ion Tests Intercell (Strap connections) Touchscreen Supports Discharge Testing On Board Data Analysis Optional Concentric Probes Optional Hydrometer Removeable memory RFID reader Supports logging (Z, V and Temp.) Optional Printer
Cell Voltage	●	●	●	
Cell Resistance				
Cell Impedance	●		●	
Cell Conductance	●			
Strap Resistance	●		●	
Ripple Current	●		●	
DC Float Current	●		●	
Escape Current	●			
Temperature	●		●	
FRA Analysis				
Capacity Testing Support	●			
DC Voltage Limits	●	●	●	
RFID Tag Support	●			
Logging Support	●		●	
Measures DC Voltage	1000Vdc			
Measures AC Voltage	600Vac			
Kelvin Clips				
Single Tip / Clip Probes				
Double Tip Probes	●	●	●	
Concentric Probes	●	●	●	
Probe Extenders	●	●	●	
Display	Touchscreen	LCD	LCD	
Removable Memory	●			
Printer	Optional			
USB Port	●	●	●	
Bluetooth Port	●		●	
IR Port				
Ability to Retest a Cell	●	●	●	
Auto Detect Cell-Strap	●			
On Board Data Analysis	●			
Accuracy	1.00%	1%	1%	
Max Cell Voltage	500Vdc	60VDC	60VDC	
Test Current	700mA	100mA	100mA	
Temperature Operating Range	0 to 50C	0 to 40C	0 to 40C	

