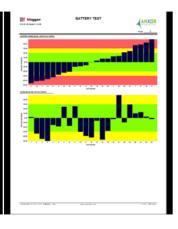
Power DB LITE Operation with the Megger BITE Battery Testers













Megger.

Valley Forge Corporate Center 2621 Van Buren Avenue Norristown, PA 19403 U.S.A.

www.megger.com

Power DB LITE Operation with the Megger BITE Battery Testers

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Introduction

Thank you for purchasing the Power DB Software. This software operates with the BITE2, BITE2P and BITE3 battery testers. This software allows you transfer data from the unit, analyze the data and create custom reports. This manual lists the requirements of the software, as well as the step-by-step instructions.

If you find any bugs in the PowerDB Software or have any comments, please send them to Megger via fax, e-mail or phone.

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For more information, please visit our web site at www.megger.com

Receiving Information

Contents of Power DB Kit:

Qty	Part No.	Description
1	1001-381	Power DB software
1	AVTM82318	Manual

When your Megger Power DB Software Kit arrives, check the items received against the packaging list to ensure that all materials are present. Notify Megger of any shortages.

Examine the contents for damage received in transit. If any damage is discovered, file a claim with the carrier at once and notify Megger or its nearest authorized sales representative, giving a detailed description of the damage.

Equipment Required

The following equipment or equivalent is required to operate the Power DB Software.

Qty	Part Number	Description
1	1001-381	Power DB Software
1	IBM Compatible PC	2 GHz PC with 2GB RAM Windows XP / Vista / Windows 7, Windows 8 or Windows 10.

1.

Power DB Overview

Power DB is a PC based Megger instrument interfacing software, that operates with multiple Megger units, including Megger's line of Battery Testing Instrumentation. Power DB will operate with the BITE2, BITE2P, BITE3, DMA Hydrometer, Torkel and BVM voltage monitors.

There are 3 versions of the Power DB software, Power DB LITE, Power DB Advanced and Power DB Pro. Power DB LITE comes with the BITE2, BITE2P and the BITE3 at no additional charge. The Power DB Advanced and Pro versions are ordered separately and have associated charges with them.

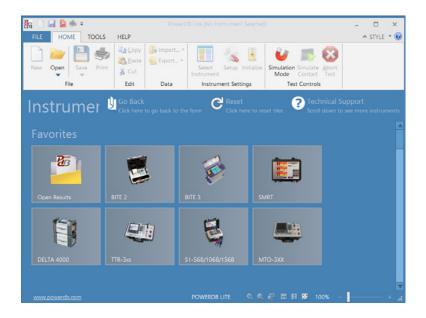
The Power DB LITE software allows operator to communicate with the BITE2, BITE2P and BITE3 as well as import data, configure the units, import Hydrometer data, create reports and charts, configure the reports and charts, configure battery data as well as import pre-existing ProActiv Databases. The following table illustrates the differences between the different versions of Power DB.

COMPARISON GUIDE	PowerDB Edition		
	ONBOARD	LITE	PRO
Runs in a hardened embedded environment	-		
Navigate with arrow and enter keys (no mouse)	•		
Manage data files with internal drive and USB drive	•		
Uses a subset of PowerDB Pro forms applicable to your instrument	•	-	
Files can import into PowerDB Pro	•	-	
Relay/Breaker/Re-closer curve library	-	-	-
Completed forms are saved as files to your computer	-	-	-
Associates current test data with historical results	-	-	-
Control Megger instruments and download test data		-	-
Control non-Megger instruments			-
280+ industry standard test forms are provided			-
advanced Relay Form			-
Trend historical results for asset for predictive failure analysis			-
Trend historical results for asset against other similar assets			-
Database functionality to manage data for all electrical equipment			-
One step report generation			-

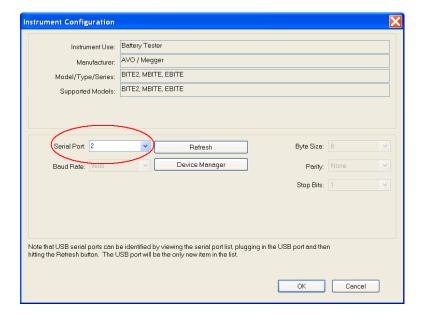
COMPARISON GUIDE	PowerDB Edition		
	ONBOARD	LITE	PRO
Summarize noted comments and/or deficiencies			-
Trigger work order and maintenance schedules			-
Synchronize results from field to master database			-
Synchronize results with other testers			-
Form editor allows test sheets to be created or customized			-
Import data from other software packages			-
Maintain calibration data for test instruments			-

Transferring Data from a BITE2/2P Receiver

Open PowerDB LITE. (The following screen will appear)

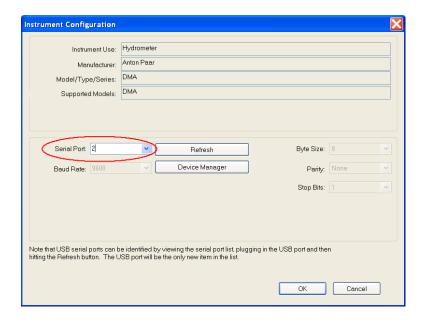


Click on the BITE2 picture. (The following screen will appear)



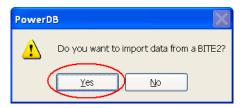
Select COM Port that the unit is connected to, then click OK.. (The following screen will appear)

NOTE: If you are unsure what COM port the unit will be connected to then click on DEVICE MANAGER and scroll down to COM Ports. Expand the COM Port section and you will be able to see what the COM port designations are.

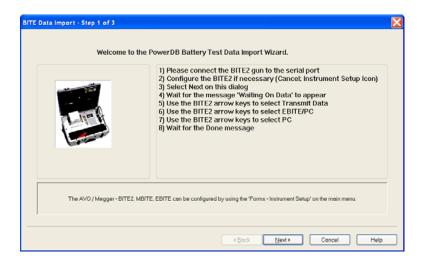


Select COM Port for Hydrometer then click OK. (The following screen will appear)

NOTE: If you are not using a hydrometer then just click OK to proceed.



Click YES on the "Do you want to import data from a BITE2" screen. (The following BITE2 data transfer Wizard screen will appear)



Connect the BITE2 receiver to the COM port you selected.

Power Up the BITE2 receiver by pressing the Power ON key on the receiver.

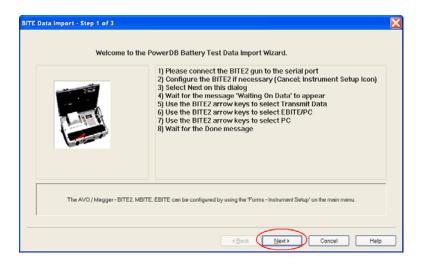


The message "TRANSMIT DATA (Y/N)?" should appear on the BITE2 Receiver display.



Click NEXT in the PowerDB software.

NOTE: Read the entire selection below before proceeding. The software will time out if too much time lapses between these steps.



Select "Y" on the BITE2 receiver by pressing the UP arrow key on the BITE2 receiver. (The following will be displayed on the BITE2 receiver)



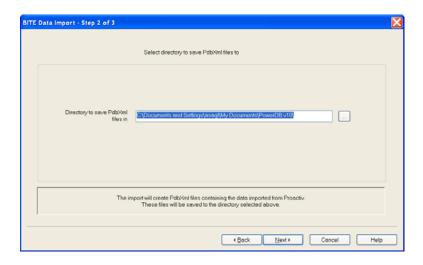
Select "EBITE / PC" on the BITE2 receiver by pressing the UP arrow key on the BITE2 receiver. (The following will be displayed on the BITE2 receiver)



Select "PC" on the BITE2 receiver by pressing the DOWN arrow key on the BITE2 receiver. (The receiver will now start transferring the data to the PC)

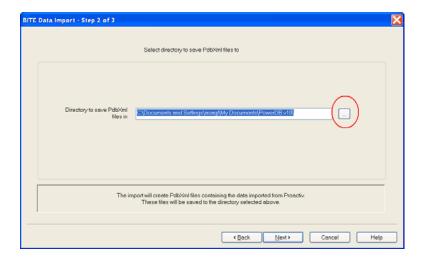


When the data transmission is complete, the following screen is displayed. This screen will allow you to select the data path you wish to save the transmitted data to.



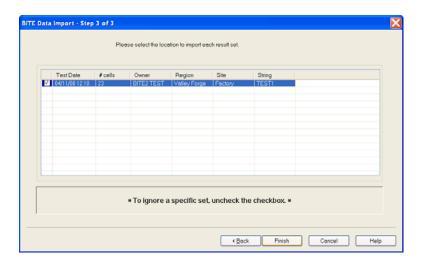
If you wish to save the data to a different path then the one displayed then click on the BROWSE button and select the desired path.

NOTE: The default data path is displayed. If you are *not* saving the data to a different path just click on NEXT to proceed.



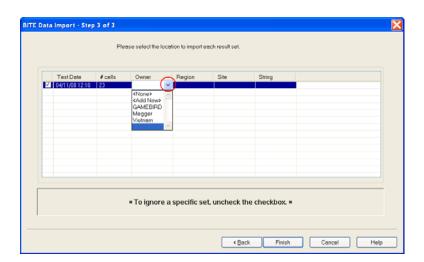
When the desired path is selected, click on the NEXT button. (The following screen is displayed).

NOTE: All the recorded data files in the receiver will be displayed. Uncheck the box next to any files you do NOT want to save; such as old files that have already been saved.



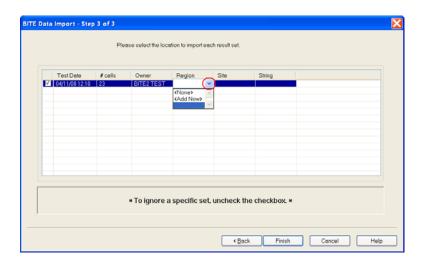
Select the desired OWNER by clicking on the drop down arrow.

NOTE: You can also select to add a NEW OWNER.



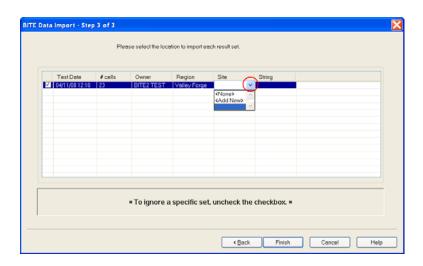
Select the desired REGION by clicking on the drop down arrow.

NOTE: You can also select to add a NEW REGION.



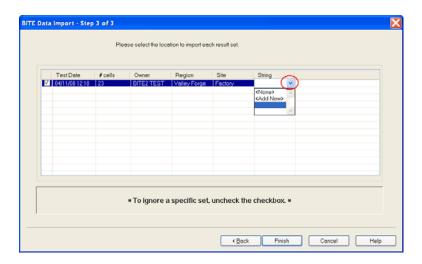
Select the desired SITE by clicking on the drop down arrow.

NOTE: You can also select to add a NEW SITE.

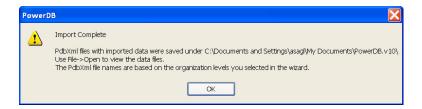


Select the desired STRING by clicking on the drop down arrow.

NOTE: You can also select to add a NEW STRING.



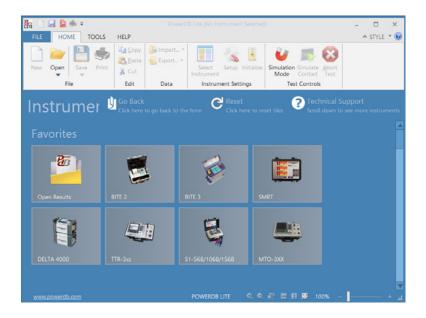
When selections have been completed click on the FINISH button. The transferred data will now be saved to the desired location and the following import completion message will appear.



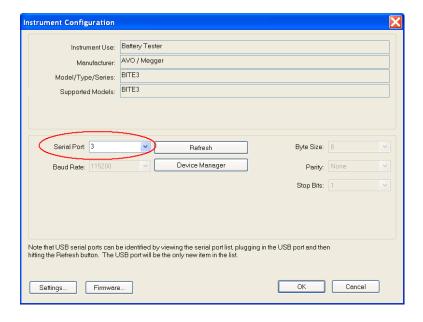
Click OK

Transferring Data from a BITE3

Open PowerDB LITE. (The following screen will appear)

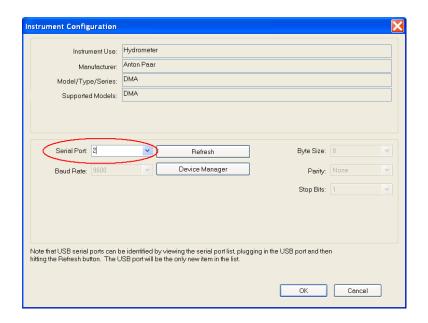


Click on the BITE3 picture. (The following screen will appear)



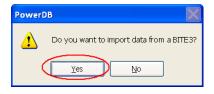
Select COM Port he unit is connected to then click OK. (The following screen will appear)

NOTE: If you are unsure what COM port the unit will be connected to then click on DEVICE MANAGER and scroll down to COM Ports. Expand the COM Port section and you will be able to see what the COM port designations are.

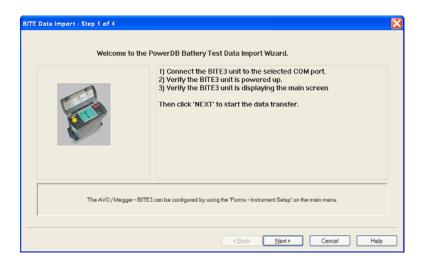


Select COM Port for Hydrometer, then click OK. (The following screen will appear)

NOTE: If you are not using a hydrometer then just click OK to proceed.



Click YES on the "Do you want to import data from a BITE3" screen. (The following BITE3 data transfer Wizard screen will appear)



Connect the BITE3 receiver to the COM port you selected, using the Null modem RS-232 cable supplied with the unit .

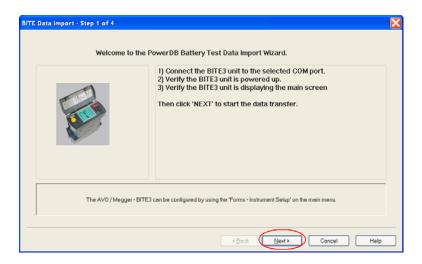
Power Up the BITE3 receiver by pressing the Power ON / OFF button on the unit.



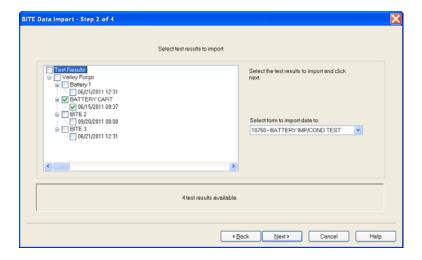
Verify the unit boots up to its main menu.



Click NEXT in the PowerDB software.



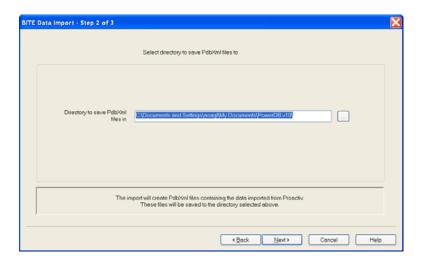
Power DB LITE will now display all the data files recorded in the BITE3 unit.



Select the data files you wish to download by checking the box next to them. When complete click the NEXT button.

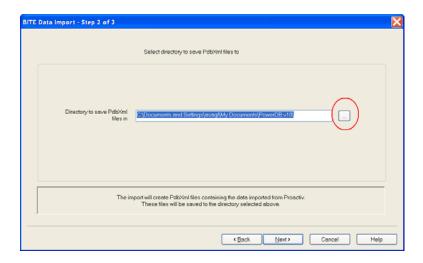
The data will now transfer from the BITE3 to the Power DB LITE software.

When the data transmission is complete, the following screen will be displayed. This screen will allow you to select the data path you wish to save the transmitted data to.



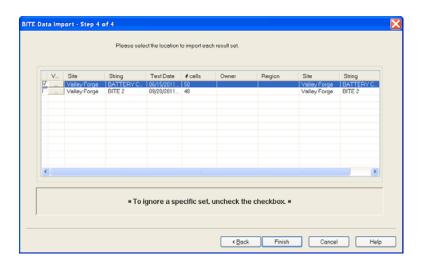
If you wish to save the data to a different path then the one displayed then click on the BROWSE button and select the desired path.

NOTE: The default data path is displayed. If you are not saving the data to a different path just click on NEXT to proceed.



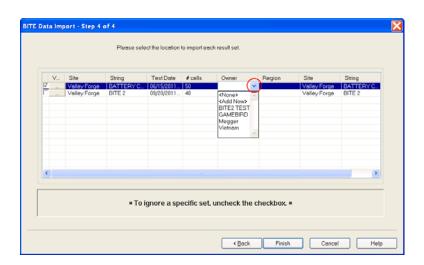
When the desired path is selected, then click on the NEXT button. (The following screen will be displayed)

NOTE: All the recorded data files in the receiver will be displayed. Uncheck the box next to any files you do NOT want to save; such as old files that have already been saved.



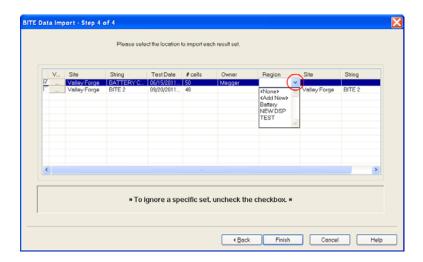
Select the desired OWNER by clicking on the drop down arrow

NOTE: You can also select to add a NEW OWNER.



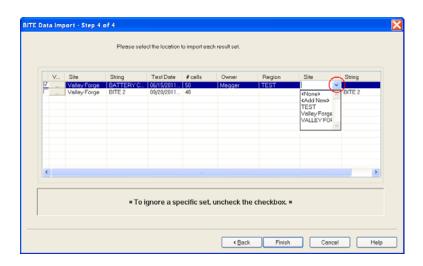
Select the desired REGION by clicking on the drop down arrow.

NOTE: You can also select to add a NEW REGION.



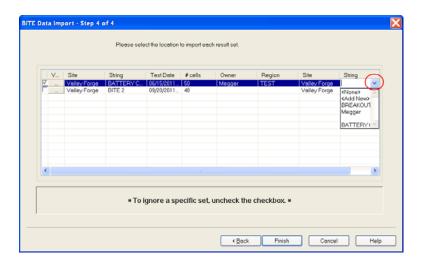
Select the desired SITE by clicking on the drop down arrow.\

NOTE: You can also select to add a NEW SITE.

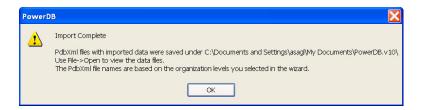


Select the desired STRING by clicking on the drop down arrow.

NOTE: You can also select to add a NEW STRING.



When selections have been completed click on the FINISH button. The transferred data will now be saved to the desired location and the following import completion message will appear.



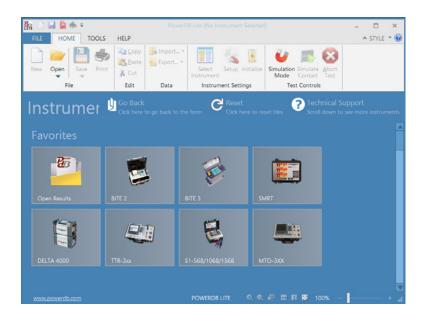
Click OK

4.

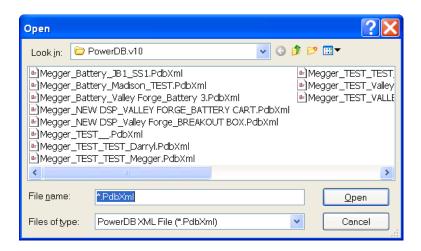
Report Generation

Opening a Report

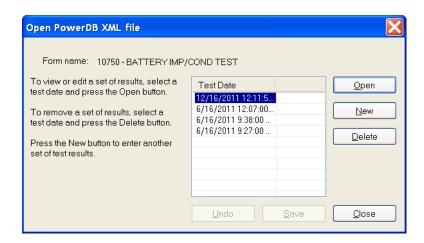
To open a report either click on the "Open" folder or the picture "Open Results".



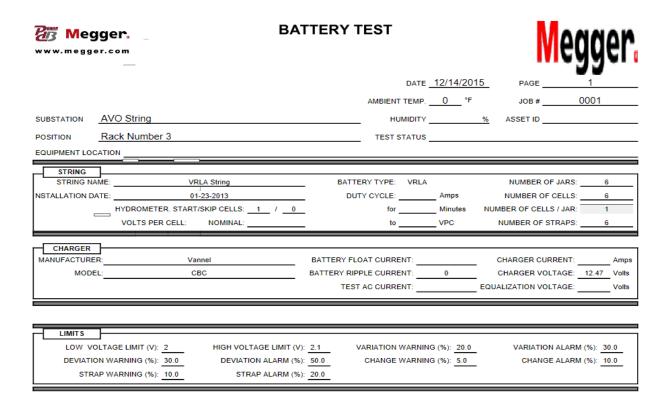
The following window will open.



Select the desired file to open then click on OPEN. The following screen will open.

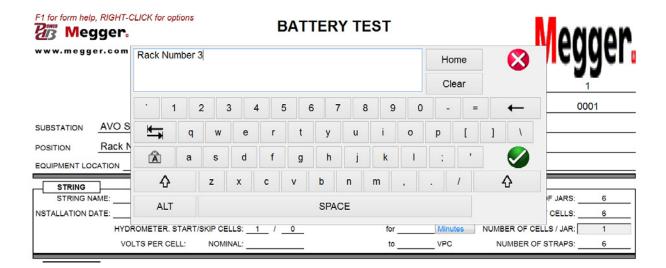


Select the desired test to open then click on OPEN. The report will now open, as shown in the example below.



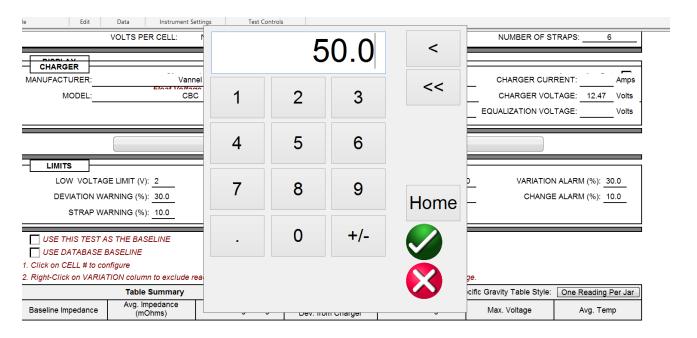
Manually Entering Site Information

SITE data can be entered manually in the below section of the report. Simply click on the desired field and a window will open. Enter the data either from the PC keypad or from a touch screen. When the report is closed, it will prompt you to save the changes. Select YES to save the data you entered and any changes you made.



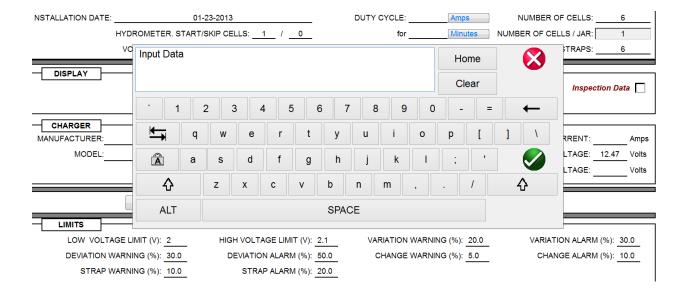
Manually Entering Limits

LIMIT data can be entered manually in the below section of the report. This data will be used by the reports to calculate voltage limits, variation limits, deviation limits, percent change limits and strap limits. Simply click on the desired field and a window will open. Enter the data either from the PC keypad or from a touch screen. When the report is closed, it will prompt you to save the changes. Select YES to save the data you entered and any changes you made.



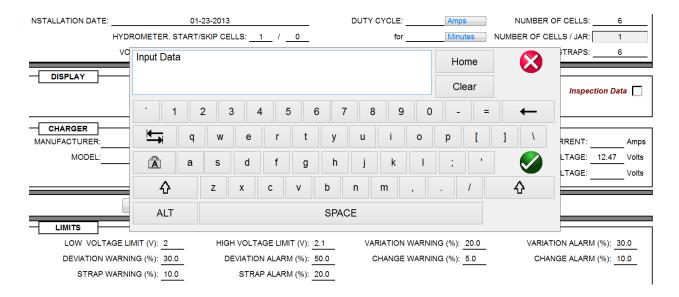
Manually Entering String Data

STRING data can be entered manually in the below section of the report. Simply click on the desired field and a window will open. Enter the data either from the PC keypad or from a touch screen. When the report is closed, it will prompt you to save the changes. Select YES to save the data you entered and any changes you made.



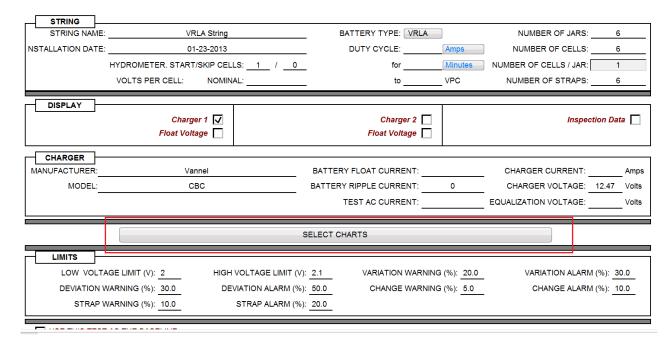
Manually Entering Charger Data

CHARGER data can be entered manually in the below section of the report. Simply click on the desired field and a window will open. Enter the data either from the PC keypad or from a touch screen. When the report is closed, it will prompt you to save the changes. Select YES to save the data you entered and any changes you made.

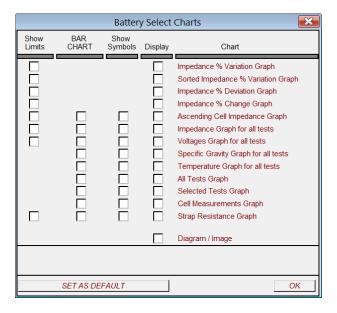


Creating Charts

To add a chart to the report scroll down the report then click on SELECT CHART.



Click on SELECT CHARTS and the following Window should open.

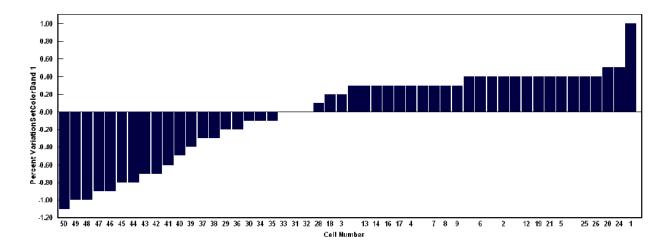


All available charts are displayed on the right side of the window under CHART. To view a chart in the report simply click on the display box in front of the chart. If the check is present the chart will be displayed in the report.

There are several options the operator can select to customize the charts in the report.

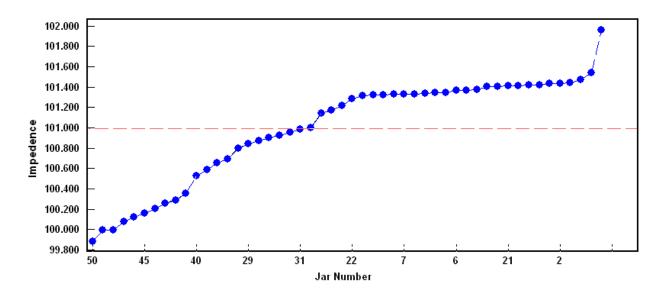
Bar Chart

All charts will be displayed as line charts unless the bar chart selection is checked for the associated chart. (NOTE: This option is only available for those charts that are displayed as both bar charts and line charts.)



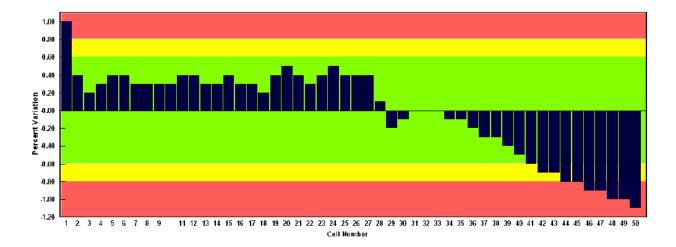
Show Symbols

When this selection is enabled for the associated chart, it will display symbols in the line chart where each data point is located. (NOTE: This only applies to line charts.)



Show Limits

When this selection is enabled for the associated charts, it will display warning limits and alarm limits in the chart. (NOTE: These limit values in the report are the ones used by the charts.)



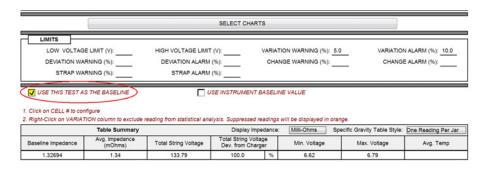
Calculating Baseline Data

Power DB allows you to establish baseline values in three different manners.

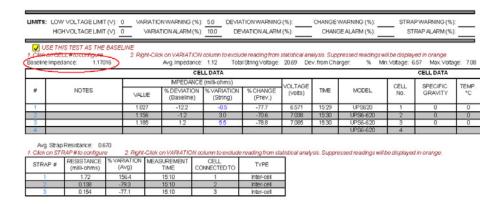
If you need to establish a baseline value for a battery string Power DB will calculate the baseline value with the data from the first test. (It is recommended to use data from a new string that has completed formation to use as a baseline value.)

To establish a new baseline value first create a report

Click on USE THIS TEST AS THE BASELINE.



The new baseline value will be displayed. (This value is calculated by averaging all the cells together then discarding any cells values that are more that 5% from the average. Then the average is recalculated. This process id continued until all the cell values used are within 5% of the calculated average. This value is now the baseline value.)



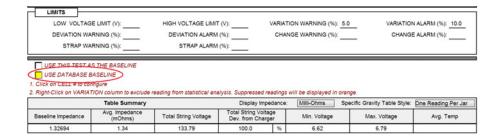
Inputting a New Battery Baseline Value

If you already established baseline values these can be either entered manually or downloaded from the instrument used to test the battery string.

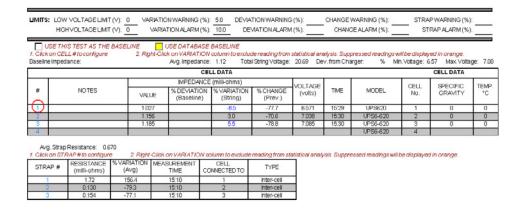
Enter a baseline manually.

Create a battery report.

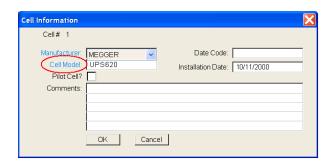
Select USE DATABASE BASELINE



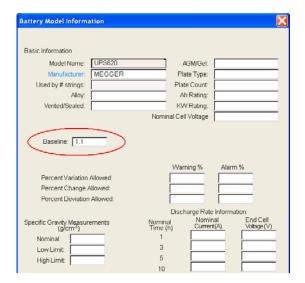
Click cell "1". (The Cell Information Window will now open)



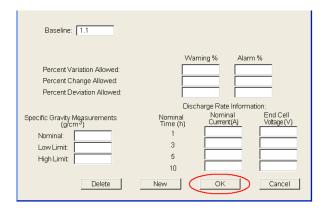
Click on CELL MODEL. (The Battery Model Window will now open.)



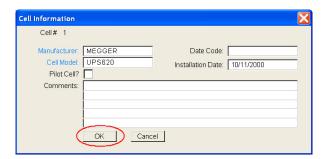
Enter the new baseline value.



Click OK to close the Battery Model Window



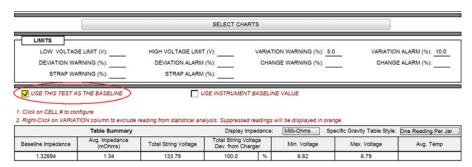
Click OK to close the Battery Cell Information Window



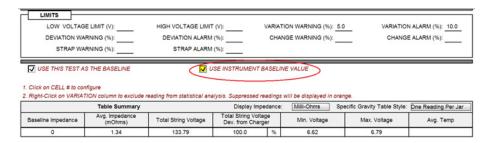
Downloading the Baseline from the BITE

If you already have establish a baseline values programmed into the BITE unit, this value can be loaded into the report.

Click on USE THIS TEST AS THE BASELINE. (This should be done on the first test performed on the battery string under test.)



Click on USE INSTRUMENT BASELINE VALUE.



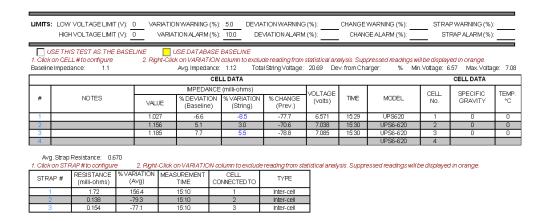
The Power DB report will now use the baseline value programmed in the BITE instrument as the reference value for this string.

Megger.

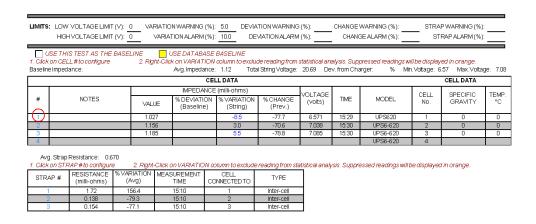
5.

Entering New Battery Cell Data

Create the Battery Report.



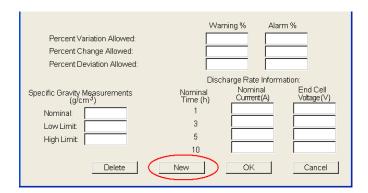
Click cell "1". (The Cell Information Window will now open)



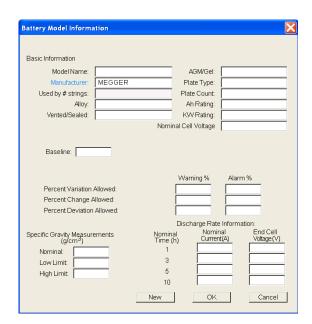
Click on CELL MODEL. (The Battery Model Window will now open)



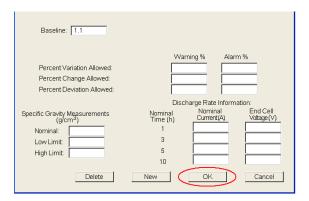
Click on NEW



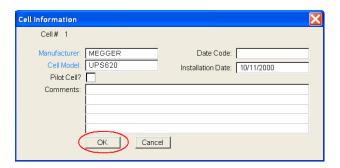
Enter new battery data



Click OK to close the Battery Model Window

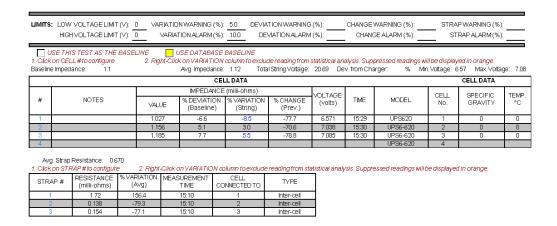


Click OK to close the Battery Cell Information Window

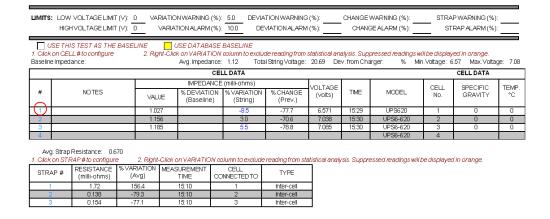


Entering New Warning & Alarm Limit Values

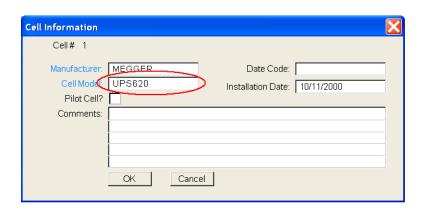
Create the battery report.



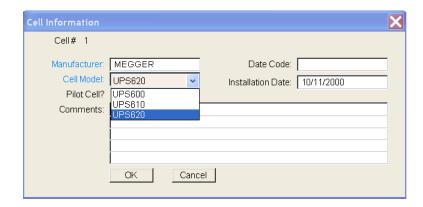
Click cell "1". (The Cell Information Window will now open)



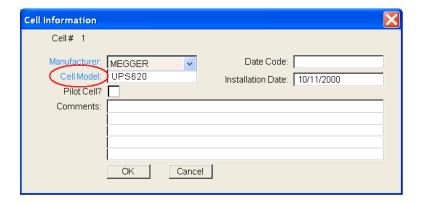
Click in the Cell Model Field



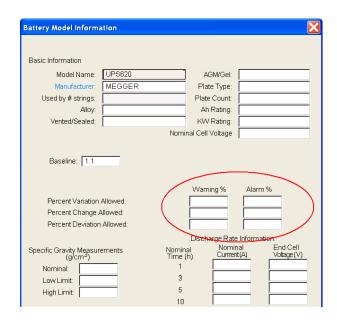
Select the desired battery



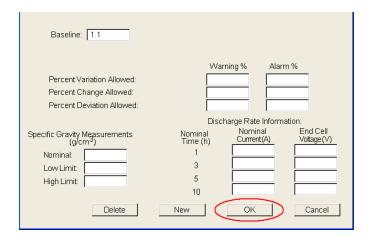
Click on CELL MODEL



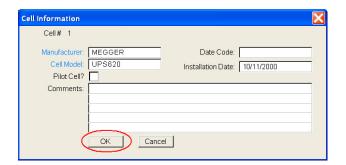
Enter new warning and alarm values



Click OK to close the Battery Model Window

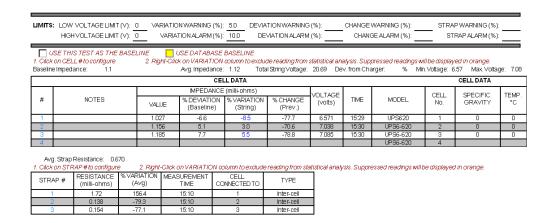


Click OK to close the Battery Cell Information Window

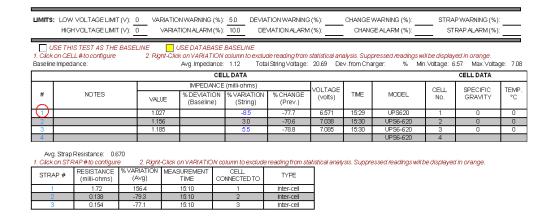


Selecting a New Battery Cell

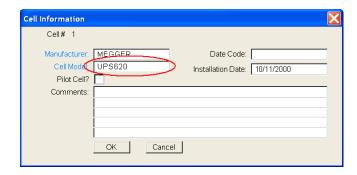
Create a battery report.



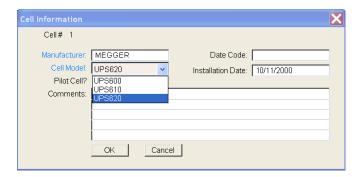
Click cell "1". (The Cell Information Window will now open)



Click in the Cell Model Field



Select the desired battery



Click OK to close the Battery Cell Information Window

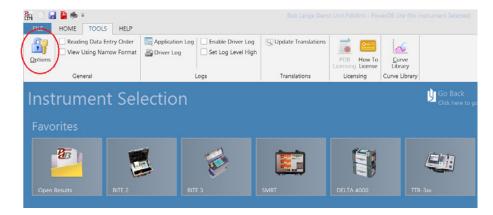
6.

Inputting a Company Logo

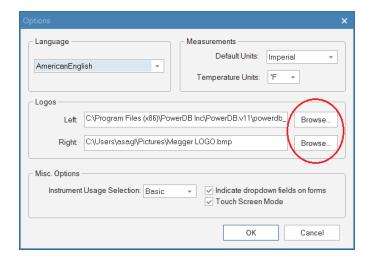
To input a company logo into a report first click on the TOOLS tab.



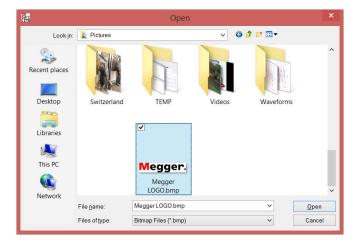
Click on OPTIONS.



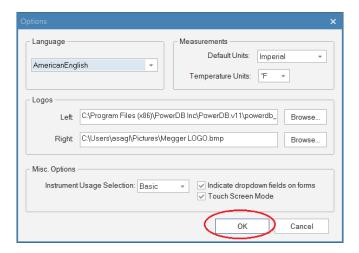
The Options window will now open. This window will allow the operator to insert logos on both sides of the report, right or left. Simply click on the BROWSE button for the logo location you are interested.



A standard Windows OPEN screen will be displayed. Navigate to the location of the bitmap you wish to use. Select the desired bitmap and then click on OPEN.



The software will return to the OPTIONS screen. Simply click on OK to apply the logo.



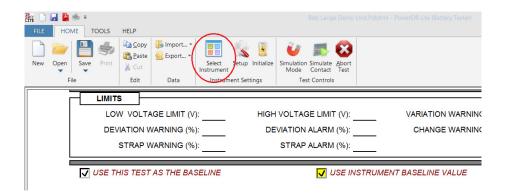
NOTE: It will be necessary to close and re-open the report in order to view the logo.

F1 forformhelp, RIGHT-CUI Megger www.megger.com		BATTERY TEST		Me	gger.
SUBSTATION	VALLEY FORGE	POSITION	Cart	PAGE	1
EQPT. LOCATION				DATE <u>6/15/201</u>	
ASSETID		AMBIENT TEMPERATURE 32 °F	HUMIDITY		
TEST EQUIPMENT USED		TE	STED BY		
STRING NAME:	Cart	VOLTS PER CELL:	NOMINAL: 2.2	DUTY CYCLE: 0	Amps
INSTALLATION DATE:	HYDI	ROMETER: START/SKIP CELLS 1 /	1	for <u>O</u>	Minutes
NUMBER OF CELLS: 5	NUMBER OF CELLS	/JAR: 1 NUMBER OF STRAPS:	50	to <u>0</u>	VPC

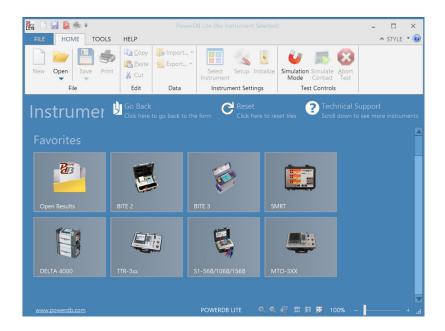
Megger.

Transferring Instrument Setup Data to the BITE3

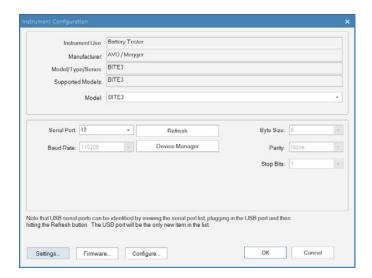
Click on SELECT INSTRUMENT button to open the home screen.



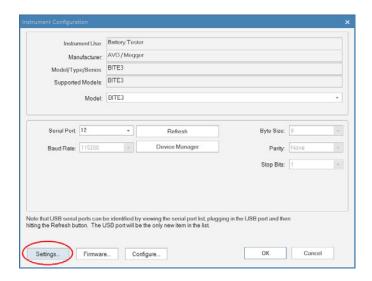
Select the BITE 3 by clicking on the BITE3 image.



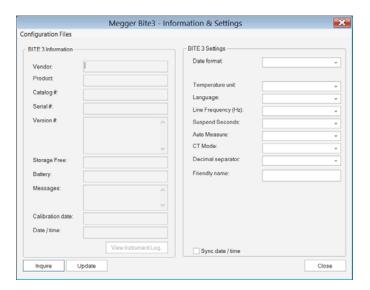
The following window will open.



Select the correct settings for the COM PORT in use and click on the SETTINGS button.



The following INFORMATION AND SETTINGS Window will open.



Turn on the BITE 3 instrument, wait until unit has completed boot up and click on the **INQUIRE** button to view the present BITE3 settings.

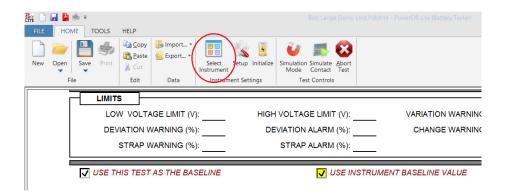
Input the desired data under the "Bite 3 Settings" Section.

Turn on the BITE 3 instrument, wait until unit has completed boot up and click on the **UPDATE** button.

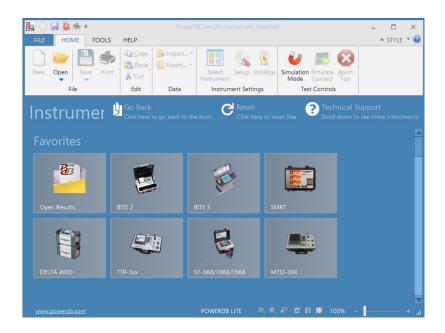
Megger.

Transferring String Configurations to the BITE3

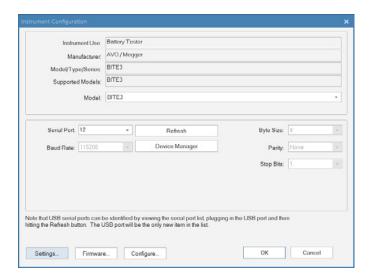
Click on SELECT INSTRUMENT button to open the home screen.



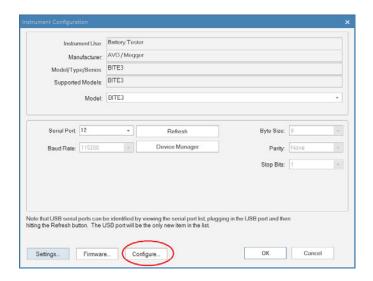
Select the BITE 3 by clicking on the BITE3 image.



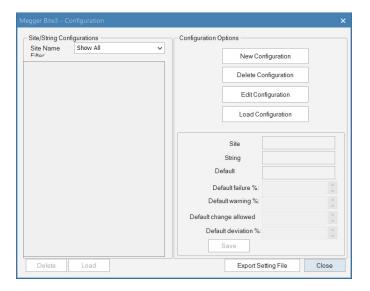
The following window will open.



Select the correct settings for the COM PORT in use and click on the CONFIGURE button.



The following Configurations Window will open.



Configure and install new configuration into the BITE3.

Edit existing configurations in the BITE3.

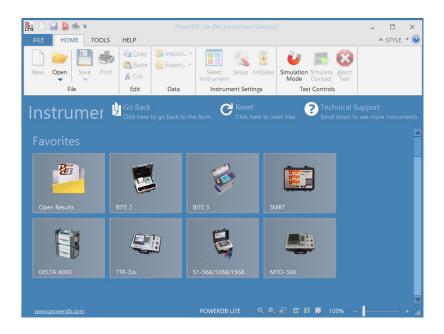
Delete string configurations in the BITE3.

Megger.

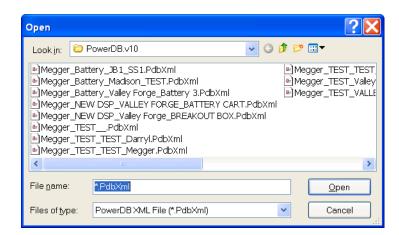
9.

Importing a ProActive Database

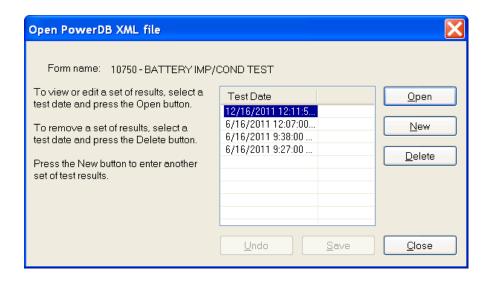
First open a report either click on either the "Open" folder or the picture "Open Results".



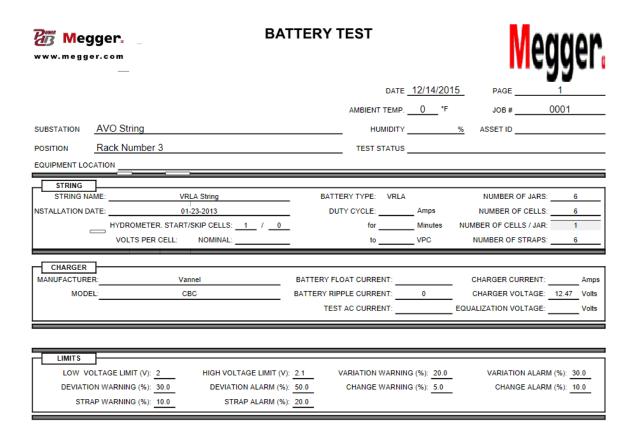
The following window will open.



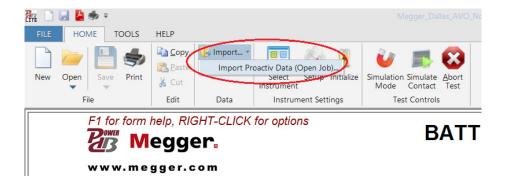
Select the desired file to open then click on OPEN. The following screen will open.



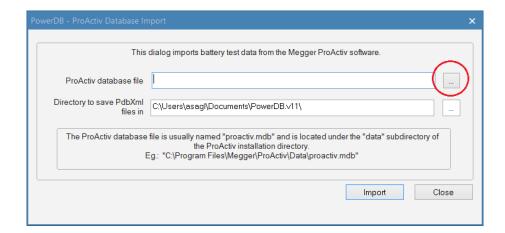
Select the desired test to open then click on OPEN. The report will now open, as shown in the example below.



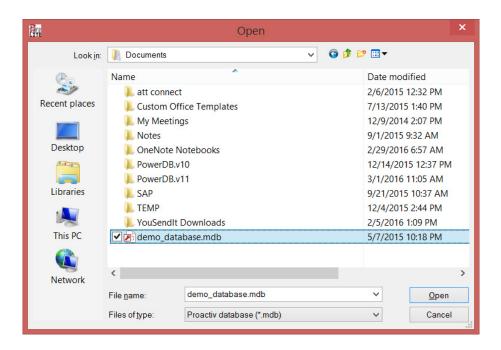
Click on IMPORT / IMPORT PROACTIV DATA



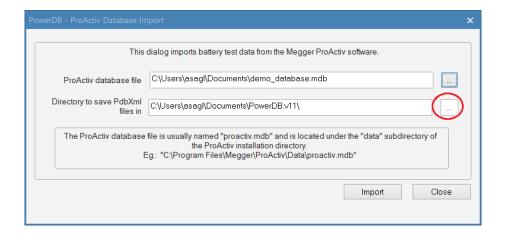
The following screen will open. Click on the ProActiv Database File BROWSE button as shown.



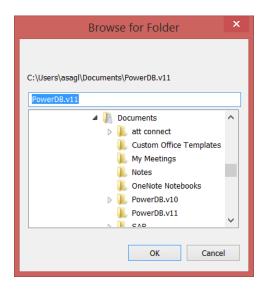
The following screen will open. Navigate to your database location and then select your desired database. When complete click on OPEN.



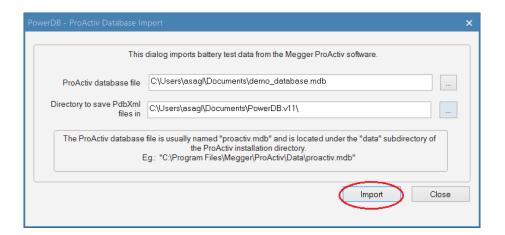
The following screen will open. Click on the PowerDB Database BROWSE button as shown.



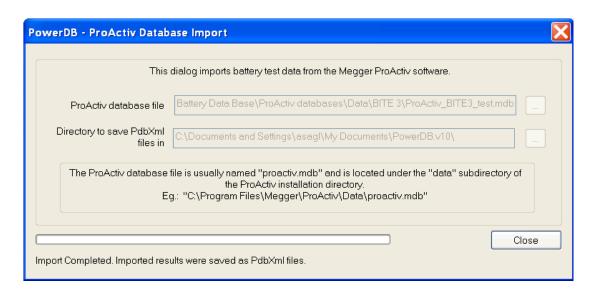
The following screen will open. Navigate to the folder you wish to copy the database to. (The default folder is MY DOCUMENTS / POWERDB) When complete click on the OK button.



The following screen will open. Click on the IMPORT button to start the import.



The following screen will open, showing the import status in the lower left. When it reads *Import Complete*, click on the CLOSE button.



The following message will be displayed. Click on OK.

