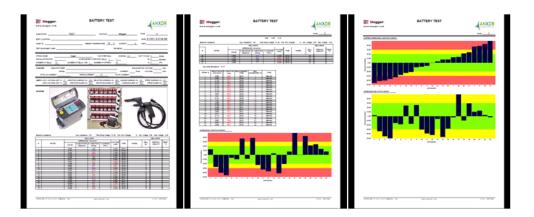
AVTM82318 Rev. 5 February 2020

Power DB LITE Operation with the Megger BITE Battery Testers





Megger_a

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

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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.

Megger Valley Forge Corporate Center 2621 Van Buren Avenue Norristown, PA, 19403 Attn: Customer Service

Fax: (214) 331 7397

E-mail: USTechSupportGrp@megger.com

For Technical Support please consult the Megger Web Site at <u>*www.megger.com*</u> for the local distributor near you.

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.

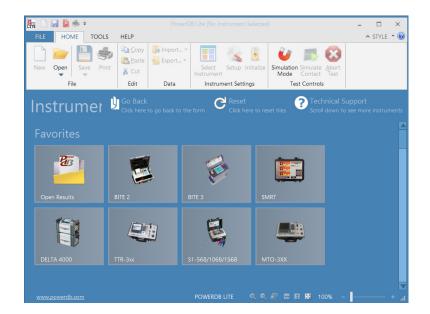
There are 3 versions of the Power DB software, Power DB LITE, Power DB Advanced and Power DB Pro. Power DB LITE comes with the BITE2, BITE2P and the BITE3 at no additional charge. The Power DB Advanced and Pro versions are ordered separately and have associated charges with them.

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	N 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	PowerD	B Editi	on
	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)

Instrument Configuration			×
Instrument Use: Manufacturer: Model/Type/Series: Supported Models:	Battery Tester AVO / Megger BITE2, MBITE, EBITE BITE2, MBITE, EBITE		
Serial Port 2 Baud Rate: 9500	Refresh Device Manager	Byte Size: Parity:	None
	e identified by viewing the serial port list, plug SB port will be the only new item in the list.	Stop Bits: ging in the USB port and the	
		ОК	Cancel

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.

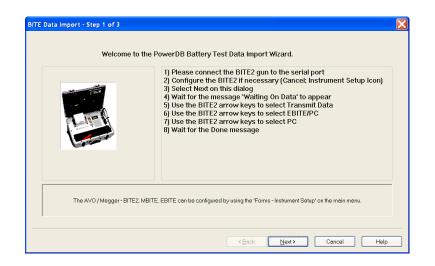
Instrument Use:	Hydrometer			
Manufacturer:	Anton Paar			
Model/Type/Series:	DMA			
Supported Models:	DMA			
Baud Rate: 9600	Refresh Device Manager	Byte Size: Parity:		
Serial Port 2	 Refresh 	Byte Size:	8	1
Baud Rate: 3600				
		Stop Bits:	1	2
	e identified by viewing the serial port list, plugging JSB port will be the only new item in the list.	g in the USB port and the	n	

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.	

PowerD	3
<u>^</u>	Do you want to import data from a BITE2?

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.

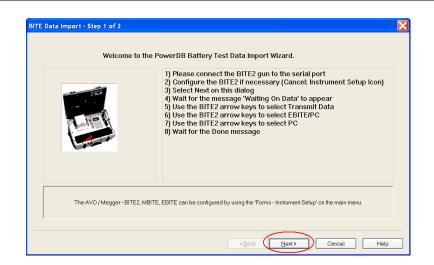


The message "TRANSMIT DATA (Y/N)?" should appear on the BITE2 Receiver display.



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.

	Select directory to save PdbXml files to
Directory to save PdbXml	
files in	C\Documents and Settings\assagl\My Documents\PowerDB v10\
The in	nport will create PdbXml files containing the data imported from Proactiv. These files will be saved to the directory selected above.
	<back next=""> Cancel Hel</back>

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.

BITE Data Imp	oort - Step 2 of 3		X
		Select directory to save PdbXml files to	
	Directory to seve Pdb¥rni files in	C\Documents and Settings\asagIMy Documents\PowerDBv10}	
	The im	nport will create PdbXml files containing the data imported from Proactiv. These files will be saved to the directory selected above.	
		Cancel	Help

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.

Please select the location to import each result set.							
	Test Date	#cells	Owner	Region	Site	String	
12	04/11/08 12:10	23	BITE2 TEST	Valley Forge	Factory	TEST1	
			* To ignore	a specific set	, uncheck tł	ne checkbox. *	

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

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

7	Test Date 04/11/08 12:10	# cells	Owner F	Region	Site	String	
	34y11700 12:10		<none> <add new=""> GAMEBIRD Megger Vietnam</add></none>				
			* To ignore a sp	ecific se	et, uncheck †	the checkbox. *	

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

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

Test Date 4/11/08 12:10	# cells	Owner BITE2 TES	Region	Site	String	
14/11/08 12:10	23	BITEZ TES	<none></none>			
			o ad Henry	~		
		* To ignor	e a specific se	t, uncheck t	he checkbox. *	

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

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

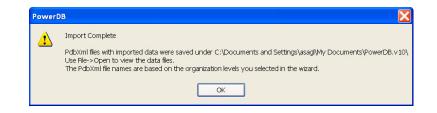
	Ple	ase select the lo	cation to import e	ach result set.		
Fest Date 4/11/08 12:10	# cells	Owner	Region Valley Forge	Site	String	
9/11/00 12:10	23	DITECTEST	Valley Forge	<none> <add new=""></add></none>		
				~		
		* To ignore	a specific se	t, uncheck the	checkbox. *	

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

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

		1		1	1		
7	Test Date 04/11/08 12:10	# cells	Owner BITE2 TEST	Region Valley Forge	Site Factory	String	
-	04/11/00 12:10	6.5	DITECTEOT	Trailey Forge	T deloty	«None»	
						<add new=""></add>	
						~	
			- ·			he checkbox. *	

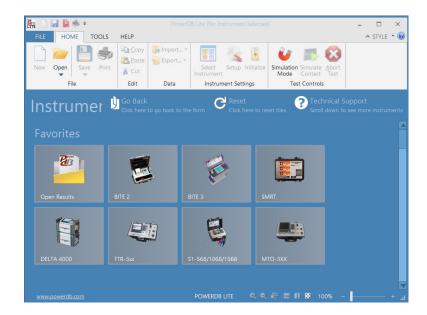
When selections have been completed click on the FINISH button. The transferred data will now be saved to the desired location and the following import completion message will appear.



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)

Instrument Use	Battery Tester			
Manufacturer	AVO / Megger			
Model/Type/Series				
Supported Models				
Serial Port 3 Baud Rate: 115200	Refresh Device Manager	Byte Size: Parity:		~
		Stop Bits:		~
	be identified by viewing the serial port list, plugg	jing in the USB port and the	n	
	USB port will be the only new item in the list.			

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.

Instrument Use:	Hydrometer		
Manufacturer:	Anton Paar		
Model/Type/Series:	DMA		
Supported Models:	DMA		
Baud Rate: 9600	Device Manager	Parity:	None
Serial Port 2	Refresh	Byte Size:	8
Baud Rate: 9600	Device Manager	Parity:	
		Stop Bits:	1
	be identified by viewing the serial port list, pluggi	ng in the USB port and the	n
	JSB port will be the only new item in the list.		

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.	

PowerDB	X
Do you want to import data from a BITE	3?

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

BITE Data Import - Step 1 of 4 Welcome to	the PowerDB Battery Test Data Import Wizard.	X
	 Connect the BITE3 unit to the selected COM port. Verify the BITE3 unit is powered up. Verify the BITE3 unit is displaying the main screen Then click 'NEXT' to start the data transfer. 	
The AVO / Megger	- BITE3 can be configured by using the 'Forms - Instrument Setup' on the main menu.	
	< Back Next> Cancel H	Help

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

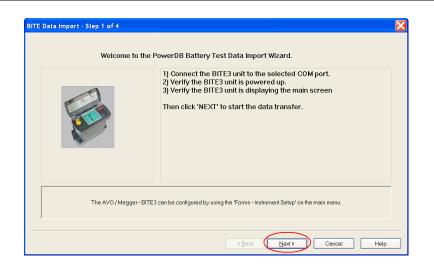
Power Up the BITE3 receiver by pressing the Power ON / OFF button on the unit.



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.

BITE Data Import - Step 2 of 4	X
Select test results to import	
Test Results ○ Valley Forge ○ Datery 1 ○ @ ATTERY CART ○ @ Gr/5/2011 0:37 ○ IFTE 2 □ BITE 3 □ 06/21/2011 12:31	Select fine test results to import and click next. Select form to import data to: 10750 - BATTERY IMP/COND TEST
4 test results available.	
(B	ack Next > Cancel Help

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.

BITE Data Import - Step 2 of 3	
Select directory to save PdbXmI files to	
Directory to save PdbXml files in Concurrents and Settings\assoptMy/Docurrents\PowerDEv10(
The import will create PdbXml files containing the data imported from Proactiv. These files will be saved to the directory selected above.	
<back next=""> Cancel Help</back>	

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.

BITE Data	Import - Step 2 of 3
	Select directory to save PdbXml files to
	Directory to save PdbXrnI files in Et/Documents and Settings/assgtMy/Documents/Fower/DB v10(
	The import will create PdbXml files containing the data imported from Proactiv. These files will be saved to the directory selected above.
	< <u>B</u> ack Next> Cancel Help

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.

	V Site	String	Test Date	# cells	Owner	Region	Site	String
7	Valley Forge		06/15/2011 09/20/2011	50 48			Valley Forge Valley Forge	BATTERY C BITE 2
<								>
		* T(o ignore a sp	ecific set	. uncheck th	e checkbox. *		

Select the desired OWNER by clicking on the drop down arrow

BITE Data Import - Step 4 of 4 Please select the location to import each result set. Test Date # cells String Site Owner Region BATTE 06/15/201 BATT <None> <Add New> BITE2 TEST GAMEBIRD Megger Vietnam BITE 2 09/20/2011 BITE : * To ignore a specific set, uncheck the checkbox. * <Back Finish Cancel Help

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.

	V	Site	String	Test Date	# cells	Owner	Region 🦯	Site	String
		Valley Forge Valley Forge	BATTERY C. BITE 2	06/15/2011		Megger	(None) (Add New) Battery NEW DSP TEST	Valley Forge	BITE 2
<									,

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

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

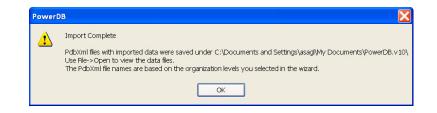
	V	Site	String	Test Date	# cells	Owner	Region	Site	String
		Valley Forge Valley Forge	BATTERY C BITE 2	06/15/2011 09/20/2011	50 48	Megger	TEST	CNORE> CADD New> TEST Valley Forge VALLEY FOF	BITE 2
<	1				111				>

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

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

			1,000000	elect the location	io imponoon				
	V	Site	String	Test Date	# cells	Owner	Region	Site	String
		Valley Forge	BATTERY C BITE 2			Megger	TEST	Valley Forge Valley Forge	(None) (Add New) BREAKOUT Megger BATTERY (
<			* To	o ignore a sp	ecific set	uncheck the	e checkbox. *		

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.



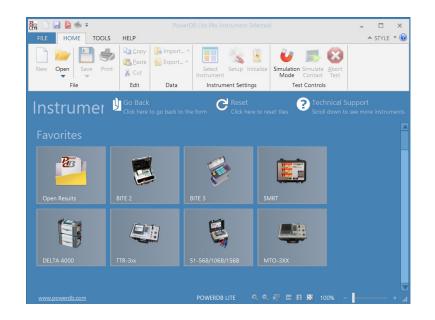
Click OK.

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.

Open		2 🗙
Look <u>i</u> n: 📁	PowerDB.v10	🗸 G 🤌 📂 🖽
 Megger_Bat Megger_NEN Megger_NEN Megger_NEN Megger_TES Megger_TES 	tery_JB1_SS1.PdbXml tery_Madison_TEST.PdbXml tery_Valley Forge_Battery 3.PdbXi W DSP_VALLEY FORGE_BATTERY W DSP_Valley Forge_BREAKOUT B STPdbXml ST_TEST_DarryI.PdbXml ST_TEST_Megger.PdbXml	CART.PdbXml
<		>
File <u>n</u> ame:	*.PdbXml	<u>O</u> pen
Files of <u>type</u> :	PowerDB XML File (*.PdbXml)	Cancel

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

Open PowerDB XML file		X
Form name: 10750 - BATTERY IMP/ To view or edit a set of results select a		
test date and press the Open button. To remove a set of results, select a	Test Date 12/16/2011 12:11:5 6/16/2011 12:07:00 6/16/2011 9:38:00	<u>O</u> pen <u>N</u> ew
test date and press the Delete button. Press the New button to enter another set of test results.	6/16/2011 9:27:00	Delete
	Undo Save	<u>C</u> lose

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

Www.megger		BATTERY 1	EST		Me	gger,
			DATE	12/14/2015	PAGE	1
			AMBIENT TEMP.	0 °F	JOB #	0001
SUBSTATION A	VO String		HUMIDITY	%	ASSET ID	
	Rack Number 3		TEST STATUS			
EQUIPMENT LOCAT	TION					
NSTALLATION DATE		DUT	for to DAT CURRENT: PLE CURRENT:	_ Amps _ Minutes N _ VPC	NUMBER OF JARS: NUMBER OF CELLS: UMBER OF CELLS / JAR: NUMBER OF STRAPS: CHARGER CURRENT: CHARGER CURRENT: CHARGER VOLTAGE:	6 1 6 12.47 Amps Volts
DEVIATION	TAGE LIMIT (V): 2 HIGH VC WARNING (%): 30.0 DEVIA WARNING (%): 10.0 ST					

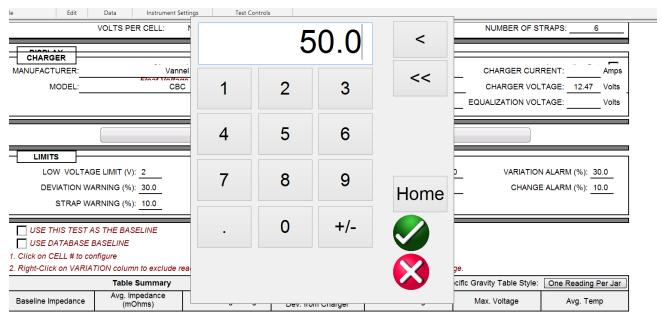
Manually Entering Site Information

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.

F1 for form help, RIGHT-C	CLICK for opt	ions			E	ЗАТ	TER	ΥΤ	EST						AAAAA
www.megger.com	Rack Num	nber 3										Home		\mathbf{x}	
												Clear			1
	• 1	2	2	3	4	5	6 7	7	B	9	0	-	=	+	0001
SUBSTATION AVO S	<u>~</u> →	q	w	е	r	t	у	u	i	0	р	[] /	
POSITION Rack N	Â	а	s	d	f	g	h	j	k	I		;	•		
	Ŷ		z	x	с	v	b	n	m	,	•	1		Ŷ	
STRING NAME: NSTALLATION DATE:	ALT						SPA	CE)F JARS: <u>6</u> CELLS: <u>6</u>
HYDF	ROMETER. ST	TART/S		ELLS:	1 /	0			fo	r	[]	linutes	N	UMBER OF CE	ELLS / JAR: 1
VO	LTS PER CEL	L:	NOM	IINAL:					t	o	V	PC		NUMBER O	F STRAPS: 6

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.



AVTM82318 Rev 5 February 2020

Auto Select Limits based on Battery Chemistry

The Power DB software will automatically set the limits based on the battery chemistry being tested. To use this feature enable "USE DEFAULT LIMITS BASED ON BATTERY TYPE".

		SELECT	CHARTS				
DEVIATION		SH VOLTAGE LIMIT (V): 2.3 DEVIATION ALARM (%): 50.0 STRAP ALARM (%): 20.0	CHAN	ION WARNING (%): <u>10.</u> IGE WARNING (%): <u>5.0</u> SE DEFAULT LIMITS B/		VARIATION ALARM (' CHANGE ALARM (' TERY TYPE	
🗸 USE THIS TES	T AS THE BASELINE	USE INSTRUI	MENT BASELIN	E VALUE			
Т	Then select the batter	ry chemistry by cli	cking on	the "BATTE	RY TYP	E" field.	
	VO /RLA non_Battery Room		TE	HUMIDITY			VRLA
STRING NAMI	HYDROMETER. START/SKIP C			PE: VRLA CAMPS LE: Amps for Minutes to VPC	NU NUMBER	UMBER OF JARS: _ IMBER OF CELLS: _ R OF CELLS / JAR: [IBER OF STRAPS: _	
	Then select the bat	ttery chemistry.					
	VO				<u>%</u> AS		VRLA
	RLA ION Battery Room		<u> </u>	VLA			
STRING STRING NAME	HYDROMETER, START/SKIP C		BATTERY ' DUTY C'	VRLA Ni-Cad		IUMBER OF JARS: _ JMBER OF CELLS: _ R OF CELLS / JAR: [IBER OF STRAPS: _	
	All the limits fields needs to be set ma datasheet.	,		1	0		

	5			
LO	V VOLTAGE LIMIT (V): 0	HIGH VOLTAGE LIMIT (V): 0	VARIATION WARNING (%): 10.0	VARIATION ALARM (%): 30.0
DE	ATION WARNING (%): 20.0	DEVIATION ALARM (%): 50.0	CHANGE WARNING (%): 5.0	CHANGE ALARM (%): 10.0
	STRAP WARNING (%): 15.0	STRAP ALARM (%): 20.0	USE DEFAULT LIMITS BASED C	DN BATTERY TYPE

NOTE: These limits are intended as initial values.

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.

NSTALLATION DATE:		01-	23-2013				_	DU	TY C			Amp	s	NUMBER	OF CELLS: 6
HYDI	ROMETER.	START/	SKIP CE	LLS:	1 /	0	-			for		Minu	ites	NUMBER OF CE	ELLS / JAR: 1
	Input Da	ta										Ho	me		TRAPS: 6
DISPLAY												Cl	ear		Inspection Data
	•	1	2	3	4	5	6	7	8	9	0	-	=	←]
MANUFACTURER:	₩	q	w	е	r	1	t y		L	i	0	р	[] /	RRENT: Amps
MODEL:	Â	а	s	d	f	ç	, h		j	k	I	;	•		LTAGE: <u>12.47</u> Volts LTAGE: Volts
	Ŷ		z	x	с	v	b	n	r	n	,	•	1	Ŷ	
	ALT	-					SP	ACE							
LOW VOLTAGE L	MIT (V): 2		HIG	H VOLT	AGE L	IMIT (V)	: 2.1		VARI		WARNIN	IG (%):	20.0	VARIAT	FION ALARM (%): 30.0
DEVIATION WARNI	NG (%): 30	.0	D	EVIATIO	ON ALA	RM (%)	: 50.0		СН	ANGE	WARNIN	IG (%):	5.0	CHAI	NGE ALARM (%): 10.0
STRAP WARNI	NG (%): 10		STR	AP ALA	RM (%)	: 20.0									

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.

DISPLAY	Charger 1 🔽 🧲 Float Voltage 🗌	Charger 2 Float Voltage]	Inspection	Data 🔲
CHARGER MANUFACTURER: MODEL:		BATTERY FLOAT CURRENT: BATTERY RIPPLE CURRENT: TEST AC CURRENT:	0.7 11	CHARGER CURRENT: CHARGER VOLTAGE: EQUALIZATION VOLTAGE:	Amps Volts Volts

Float voltage information can be entered by enabling the "FLOAT VOLTAGE" field.

DISPLAY	Charger 1 🔲 Float Voltage 🔽 🗲	Charger 2 🔲 Float Voltage 🗌	Inspection	Data 🔲
CHARGER MANUFACTUREF MODEL ALARM		BATTERY FLOAT CURRENT: BATTERY RIPPLE CURRENT: TEST AC CURRENT: EQUALIZ	CHARGER CURRENT: CHARGER VOLTAGE: 11 EQUALIZATION VOLTAGE: AS FOUND: AS LEFT: AS LEFT:	Amps Volts Volts

Data for a second charger can be entered by enabling the "CHARGER 2" field.

	Charger 1 🗸 Float Voltage 📘	Charger 2 Float Voltage		Inspec	tion Data 🔲
MANUFACTURER:		BATTERY FLOAT CURRENT:		CHARGER CURRENT:	Amps
MODEL:		BATTERY RIPPLE CURRENT:	0.7	CHARGER VOLTAGE:	Volts
		TEST AC CURRENT:	11	EQUALIZATION VOLTAGE:	Volts
MANUFACTURER:		BATTERY FLOAT CURRENT:		CHARGER CURRENT:	Amps
MODEL:		BATTERY RIPPLE CURRENT:		CHARGER VOLTAGE:	Volts
		TEST AC CURRENT:		EQUALIZATION VOLTAGE:	Volts

Manually Entering Inspection Data

Inspection data can be added to the Power DB report. To add inspection data to the report enable the "INSPECTION DATA" field.

DISPLAY							1			
	Charger 1 🔽 Float Voltage 📃				Charger 2 Float Voltage	Concernant of the second	Inspection Data 🔽			
CHARGER										
MANUFACTURER:				BATTERY FLOAT CURRENT:			CHARGER CURRENT:			
MODEL:					RY RIPPLE CURRENT:	-	0.7	CHARGER VOLTAGE:	Volts	
					TEST AC CURRENT		11 E	QUALIZATION VOLTAGE:	Volts	
]									
INTER-CELL/JAR CON	INTER-CELL/JAR CONNECTION TORQUE:				DOES THE UNIT RUN	N:				
POSITIVE TO GROUN	D:	N	EGATIVE TO GROUN	ND:			NO	TES / COMMENTS		
RACK CONDITION										
VERIFY BATTERY JAR	S ARE NOT DEFORM	IED, CRA	CKED OR LEAKING							
VERIFY ELECTROLYT	E LEVELS ARE CORF	RECT								
VERIFY THERE IS NO	CORROSION ON THE	E CONNE	CTIONS							
VERIFY THERE IS NO	GROUND FAULT PRE	ESENT								
EQUIPMENT	STATUS	s	NOTES / COM	MENTS	EQUIPMENT		STATUS	NOTES / CON	IMENTS	
FIRE SUPPRESSION					SHOWER PRESE	NT				
EMERGENCY GENER	ATOR				SPILL CONTAINME	ENT				
HYDROGEN DETECT	OR				SPILL KIT					
EYE WASH STATION					VENTILATION FAI	N]				
ADEQUATE LIGHTING										

Creating Charts

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

STRING NAME:	VRLA String	BATTERY TYPE: VRLA	NUMBER OF JARS: 6
NSTALLATION DATE:	01-23-2013	DUTY CYCLE:	Amps NUMBER OF CELLS: 6
	HYDROMETER. START/SKIP CELLS: 1 /	for	Minutes NUMBER OF CELLS / JAR: 1
	VOLTS PER CELL: NOMINAL:	to	VPC NUMBER OF STRAPS:6
	Charger 1 🔽 Float Voltage 🗌	Charger 2 🗌 Float Voltage 🗌	Inspection Data
CHARGER			
MANUFACTURER:	Vannel	BATTERY FLOAT CURRENT:	CHARGER CURRENT: Amps
MODEL:	CBC	BATTERY RIPPLE CURRENT:	0 CHARGER VOLTAGE: 12.47 Volts
		TEST AC CURRENT:	EQUALIZATION VOLTAGE: Volts
		SELECT CHARTS	
	AGE LIMIT (V): 2 HIGH VOLTAGE LI	MIT (V): 2.1 VARIATION WARNING	(%): 20.0 VARIATION ALARM (%): 30.0
	WARNING (%): 30.0 DEVIATION ALA		
	WARNING (%): 10.0 STRAP ALA		
			

Click on SELECT CHARTS and the following Window should open.

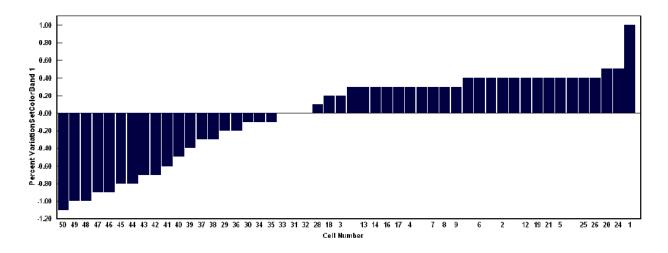
	Battery Select Charts						
Show Limits	BAR CHART	Show Symbols	Display	Chart			
				Impedance % Variation Graph Sorted Impedance % Variation Graph Impedance % Deviation Graph Impedance % Change Graph Ascending Cell Impedance Graph Impedance Graph for all tests Voltages Graph for all tests Specific Gravity Graph for all tests Temperature Graph for all tests All Tests Graph Selected Tests Graph Cell Measurements Graph Strap Resistance Graph			
				Diagram / Image			
	SET AS DE	FAULT		ОК			

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.

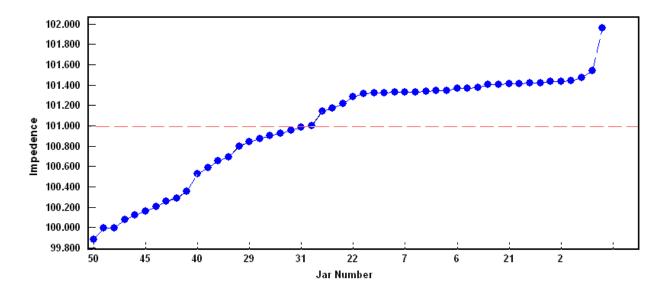
Bar Chart

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.)



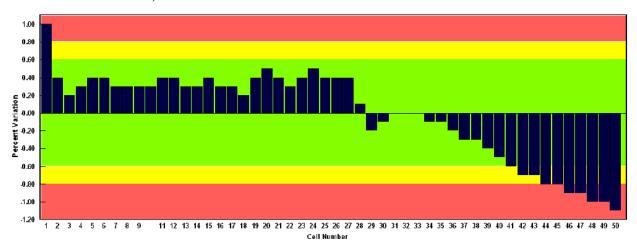
Show Symbols

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.

			SELECT CHARTS						
LIMITS									
	ELIMIT (A)-		- ^^ _		FION WARNING (%): 5		N ALARM (%): 10.0		
	LOW VOLTAGE LIMIT (V): HIGH VOLTAGE LIMIT						ALARINI (70). 10.0		
DEVIATION WA	RNING (%):	DEVIATION ALARM	(%):	CHA	NGE WARNING (%):	CHANG	E ALARM (%):		
STRAP WA	RNING (%):	STRAP ALARM	(%)						
			(<i>iv</i>)/						
		_							
USE THIS TEST A	S THE BASELINE		ISE INSTRUMENT BA	SELI	NE VALUE				
1. Click on CELL # to cor	nfigure								
2. Right-Click on VARIA	TION column to exclude n	eading from statistical ana	alysis. Suppressed rea	dings	will be displayed in or	ange.			
	Table Summary		Display Imped	lance	Milli-Ohms S	pecific Gravity Table Style:	One Reading Per Jar		
Baseline Impedance	Avg. Impedance (mOhms)	Total String Voltage	Total String Voltage Dev. from Charge		Min. Voltage	Max. Voltage	Avg. Temp		
1.32694	1.34	133.79	100.0	%	6.62	6.79			

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.)

шмп	LIMITS: LOW VOLTAGE LIMIT (V): 0 VARIATION WARNING (%): 5.0 DEVIATION WARNING (%): CHANGE WARNING (%): STRAP WARNING (%): HGHVOLTAGE LIMIT (V): 0 VARIATION ALARM (%): 100 DEVIATION ALARM (%): CHANGE WARNING (%): STRAP WARNING (%):										
1.00	José an Occupation 2 Right-Click on VARIATION column to exclude reading from statistical analysis. Suppressed readings will be displayed in orange. Baseline Impedance: 1.17016 Avg. Impedance: 1.12										
				L DATA						CELL DATA	
		IMPEDANCE (mill+ohms)				VOLTAGE			CELL	SPECIFIC	TEMP.
#	NOTES	VALUE	% DEVIATION (Baseline)	% VARIATION (String)	% CHANGE (Prev.)	(volts)	TIME	MODEL	No.	GRAVITY	°C
1		1.027	-12.2	-8.5	-77.7	6.571	15:29	UPS620	1	0	0
2		1.156	-1.2	3.0	-70.6	7.038	15:30	UPS6-620	2	0	0
3		1.185	1.2	5.5	-78.8	7.085	15:30	UPS6-620	3	0	0
- 4								UPS6-620	4		

Avg. Strap Resistance: 0.670

1. Click on S	STRAP # to configur	iure 2. Right	-Click on VARIATIC	N column to exclud	e reading from stat.	istical analysis. Suppressed readings will be display
STRAP #	RESISTANCE (milli-ohms)		MEASUREMENT TIME	CELL CONNECTED TO	TYPE	
1	1.72	156.4	15:10	1	Inter-cell	
2	0.138	-79.3	15:10	2	Inter-cell	
0	0.154	77.4	15:10	0	lotor coll	

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

LIMITS LOW VOLTAGE LIMIT (V): HIGH VOLTAGE LIMIT (V): VARIATION WARNING (%): 5.0 VARIATION ALARM (%): 10.0								
DEVIATION WARNING (%): DEVIATION ALARI			(%):	(%): CHANGE WARNING (%):			E ALARM (%):	
STRAP WARNING (%):								
USE DATABASE E 1. Click on CELL # to Col 2. Right-Click on VARIA	nigure	eading from statistical and	alysis. Suppressed rea			ange. pecific Gravity Table Style:	Dne Reading Per Jar	
Baseline Impedance	Avg. Impedance (mOhms)	Total String Voltage	Total String Voltag Dev. from Charge	e	Min. Voltage	Max. Voltage	Avg. Temp	
1.32694	1.34	133.79	100.0	%	6.62	6,79		

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

⊔мпs:		LTAGE LIMIT LTAGE LIMIT	· · _		RIATION WA		·	ATION WARNING	· /		WARNING (%): GE ALARM (%):		P WARNING (%) RAP ALARM (%)	
USE THIS TEST AS THE BASELINE USE DATABASE BASELINE 1. Okk on CELL#to configure 2. Right-Click on VARATION column to exclude reading from statistical analysis. Suppressed readings will be displayed in orange. Baseline Impedance: Avg. Impedance: 1.12 Total String Voltage: 20.69 Dev. from Charger: % Min. Voltage: 6.57 Max. Voltage: 7.08														
						с	ELL DATA						CELL DATA	
#		NOTES		VALI	"- %D	IPEDANO EVIATIOI aseline)	CE (milli-ohms) N % VARIATION (String)	% CHANGE (Prev.)	VOLTAGE (volts)	TIME	MODEL	CELL No.	SPECIFIC GRAVITY	TEMP. °C
UT				1.02	7		-8.5	-77.7	6.571	15:29	UPS620	1	0	0
2				1.15			3.0	-70.6	7.038	15:30	UPS6-620	2	0	0
3				1.18	6		5.5	-78.8	7.085	15:30	UPS6-620	3	0	0
4											UPS6-620	4		
Avg. Strap Resistance: 0.670 1. Okk on STRAP # RESISTANCE 2. Rght-Click on VARIATION volumn to exclude reading from statistical analysis. Suppressed readings will be displayed in orange. STRAP # RESISTANCE VARIATION MEASUREMENT 0.000 CELL TYPE														
		nilli-ohms)		wg)	TIME		CONNECTED TO	hada a sa R	_					
2	_	1.72 0.138		6.4 9.3	15:10		2	Inter-cell Inter-cell	-					
3		0.154		9.5 7.1	15:10		2	Inter-cell	-					

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

Cell Information	
Cell# 1	
Manufacturer MEGGER Cell Model: UPS620 Pilot Cell?	Date Code: Installation Date: 10/11/2000
OK	Cancel

Enter the new baseline value.

Battery Model Information	n		
Basic Information			
Model Name: UF	°S620	AGM/Gel:	
Manufacturer: ME	EGGER	Plate Type:	
Used by # strings:		Plate Count	
Alloy:		Ah Rating:	[
Vented/Sealed:		KW Rating:	
	Nom	inal Cell Voltage	
		Warning %	Alarm %
		Warning %	Alarm %
Percent Variation Allow Percent Change Allow			
Percent Deviation Allo			
		Discharge Rate	Information:
Specific Gravity Measureme (g/cm ³)	nts Nomi Time	nal Nomii	nal End Cell
Nominal:	1		
Low Limit:	3		
High Limit.	5		
High Limit	5		

Click OK to close the Battery Model Window

Baseline: 1.1	
Percent Variation Allowed: Percent Change Allowed: Percent Deviation Allowed:	Warning % Alarm %
Specific Gravity Measurements (g/cm ⁻⁹) Nominal: Low Limit: High Limit: Delete	Discharge Rate Information: Nominal Nominal End Cell Time (h) Current(A) Votage(V) 1 3 5 10 New OK Cancel

Click OK to close the Battery Cell Information Window

Cell Information			X
Cell# 1			
Manufacturer:	MEGGER	Date Code:	
Cell Model:	UPS620	Installation Date:	10/11/2000
Pilot Cell?			
Comments:			
(OK Canc		
L C		ei	

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.)

	SELECT CHARTS											
DEVIATION WA	E LIMIT (V): RNING (%): RNING (%):	HIGH VOLTAGE LIMIT DEVIATION ALARM STRAP ALARM	(%): C		N WARNING (%): <u>5.0</u> E WARNING (%):		N ALARM (%): <u>10.0</u> E ALARM (%):					
USE THIS TEST AS THE BASELINE USE INSTRUMENT BASELINE VALUE 1. Click on CELL # to configure												
2. Right-Click on VARIATION column to exclude reading from statistical analysis. Suppressed readings will be displayed in orange.												
	Table Summary		Display Impedar	nce:	Milli-Ohms Spe	ecific Gravity Table Style:	One Reading Per Jar					
Baseline Impedance	Avg. Impedance (mOhms)	Total String Voltage	Total String Voltage Dev. from Charger		Min. Voltage	Max. Voltage	Avg. Temp					
1.32694	1.34	133.79	100.0 9	%	6.62	6.79						

Click on USE INSTRUMENT BASELINE VALUE.

LIMITS LOW VOLTAG DEVIATION WA STRAP WA		HIGH VOLTAGE LIMIT DEVIATION ALARM STRAP ALARM	(%):		TION WARNING (%): <u>5.0</u> NGE WARNING (%):		I ALARM (%): <u>10.0</u> : ALARM (%):			
USE THIS TEST AS THE BASELINE										
1. Click on CELL # to configure										
2. Right-Click on VARIATION column to exclude reading from statistical analysis. Suppressed readings will be displayed in orange.										
	Table Summary Display Impedance: Milli-Ohms Specific Gravity Table Style: One Reading Per Jar									
Baseline Impedance	Avg. Impedance (mOhms)	Total String Voltage	Total String Voltag Dev. from Charge		Min. Voltage	Max. Voltage	Avg. Temp			
0	1.34	133.79	100.0	%	6.62	6.79				

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

Entering New Battery Cell Data

Create the Battery Report

uмпs:	LOW VOLTAGE LIMIT	· · ·	RIATION WARNING VARIATION ALARM	· · ·	ATION WARNING	· · ·		WARNING (%): GE ALARM (%):		P WARNING (% RAP ALARM (%	
1. Click	SE THIS TEST AS THE on CELL#to configure Impedance: 1.1				<i>ude reading from</i> tal String Voltage:		alysis. Sup v. from Cha		<i>vill be displa</i> y in.∀ottage: 6	6.57 Max. Volta	ige: 7.08
				CELL DATA						CELL DATA	
#	NOTES	VAL	% DEVIATI		% CHANGE (Prev.)	VOLTAGE (volts)	TIME	MODEL	CELL No.	SPECIFIC GRAVITY	TEMP. °C
1		1.02	27 -6.6	-8.5	-77.7	6.571	15:29	UPS620	1	0	0
2		1.10	56 5.1	3.0	-70.6	7.038	15:30	UPS6-620	2	0	0
3		1.18	35 7.7	5.5	-78.8	7.085	15:30	UPS6-620	3	0	0
4								UPS6-620	4		
	Avg. Strap Resistance: 0.670 1. Okok on ST RAP #to configure 2. Right-Click on VARIATION column to exclude reading from statistical analysis. Suppressed readings will be displayed in orange.										
STR4	P # RESISTANCE (milli-ohms)	% VARIATION (Avg)	MEASUREMENT TIME	CELL CONNECTED TO	TYPE						
1	1.72	156.4	15:10	1	Inter-cell						
2	0.138	-79.3	15:10	2	Inter-cell						
3	0.154	-77.1	15:10	3	Inter-cell						

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

USE THIS TEST AS THE BASELINE USE DATABASE BASELINE 2 Right-Cilck on VARIATION column to exclude reading from statistical analysis. Suppressed readings will be disp. Baseline Impediance: Value Va	
# NOTES ///// % CEVIATION % CHANGE ////////////////////////////////////	CELL DATA
# NOTES VALUE % DEVIATION % VARIATION % CHANGE VOLTAGE TWE MODEL NO.	
# NOTES VALUE % DEVIATION % VARIATION % CHANGE (volts) TIME MODEL No.	SPECIFIC TEM
	GRAVITY °C
1 1.027 -8.5 -77.7 6.571 15.29 UPS620 1	0 0
2 1.156 3.0 -70.6 7.038 15.30 UPS6-620 2	0 0
3 1.185 5.5 -78.8 7.085 15.30 UPS6-620 3	0 0
4 UPS6-620 4	

7. CICK ON STE	. Click on STRAP #to configure 2. Right-Click on VARIATION column to exclude reading from statistical ana								
STRAP #	RESISTANCE (milli-ohms)	% VARIATION (Avg)	MEASUREMENT TIME	CELL CONNECTED TO	TYPE				
1	1.72	156.4	15:10	1	Inter-cell				
2	0.138	-79.3	15:10	2	Inter-cell				
3	0.154	-77.1	15:10	3	Inter-cell				

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

Megger.

Cell Information					X
Cell# 1					
Manufacturer:	MEGGER	~	Date Code:		
	UPS620		Installation Date:	10/11/2000	
Pilot Cell? Comments:					
		Orneral			
	OK	Cancel			

Click on NEW.

Percent Variation Allowed: Percent Change Allowed: Percent Deviation Allowed:	Warning % Alarm %
Specific Gravity Measurements (g/cm ³) Nominal: Low Limit High Limit.	Discharge Rate Information: Nominal Nominal End Cell Time (h) Current(A) Voltage(V) 1
Delete	New OK Cancel

Enter new battery data.

Battery Model Informa	ition		
Basic Information			
Model Name:		AGM/Gel:	
Manufacturer:	MEGGER	Plate Type:	
Used by # strings:		Plate Count:	
Alloy:		Ah Rating:	
Vented/Sealed:		KW Rating:	
	N	ominal Cell Voltage	
Baseline:		Warning %	Alarm %
Percent Variation .	Allowed:		
Percent Change A	llowed:		
Percent Deviation	Allowed:		
		Discharge Ra	te Information:
Specific Gravity Measure (g/cm ³) Nominal: Low Limit: High Limit:	ements No Tir	minal Nom ne (h) Currre 3 5 10	
	New	OK	Cancel

Click OK to close the Battery Model Window.

Baseline: 1.1	
	Warning % Alarm %
Percent Variation Allowed: Percent Change Allowed: Percent Deviation Allowed:	
	Discharge Rate Information:
Specific Gravity Measurements (g/cm ²) Nominal: Low Limit: High Limit	Nominal End Cell Tirne (h) Current(A) Voltage(V) 1
Delete	New OK Cancel

Click OK to close the Battery Cell Information Window.

Cell Information			X
Cell# 1			
Manufacturer: Cell Model:	MEGGER UPS620	Date Code: Installation Date:	10/11/2000
Pilot Cell?		motanation Date.	10/11/2000
Comments:			
(OK Canc	el	

Entering New Warning & Alarm Limit Values

Create the battery report.

имптs:	LOW VOLTAGE LIMIT (V): 0 HIGH VOLTAGE LIMIT (V): 0		N WARNING (%) TION ALARM (%)		TION WARNING MATION ALARM	` ′		WARNING (%): GE ALARM (%):	_	P WARNING (%) RAP ALARM (%)	
USE THIS TEST AS THE BASELINE USE DAT ABASE BASELINE USE DAT ABASE BASELINE Click on CELL # to configure 2. Right-Click on VARIATION column to exclude reading from statistical analysis. Suppressed readings will be displayed in orange. Baseline Impedance: 1.1 Avg. Impedance: 1.1 Total String Voltage: 20.69 Dev. from Charger: % Min. Voltage: 6.57 Max. Voltage: 7.08											
CELL DATA CELL DATA											
			MPEDANCE	(milli⊦ohms)		VOLTAGE			CELL	SPECIFIC	TEMP.
#	NOTES	VALUE	% DEVIATION (Baseline)	% VARIATION (String)	% CHANGE (Prev.)	(volts)	TIME	MODEL	No.	GRAVITY	°C
1		1.027	-6.6	-8.5	-77.7	6.571	15:29	UPS620	1	0	0
2		1.156	5.1	3.0	-70.6	7.038	15:30	UPS6-620	2	0	0
3		1.185	7.7	5.5	-78.8	7.085	15:30	UPS6-620	3	0	0
4								UPS6-620	4		

Avg. Strap Resistance: 0.670

Avg. Strap	Resistance: 0.6	170				
1. Click on STR	AP#to configun	e 2 Right-	Click on VARIATIC	N column to exclud	e reading from stati	stical analysis. Suppressed readings will be displayed in orange.
STRAP #	RESISTANCE (milli-ohms)	% VARIATION (Avg)	MEASUREMENT TIME	CELL CONNECTED TO	TYPE	
1	1.70	156.4	16:10	1	Inter cell	

	1.74	100.4	10.10		I ILCI-COI
2	0.138	-79.3	15:10	2	Inter-cell
3	0.154	-77.1	15:10	3	Inter-cell

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

	HIGH VOLTAGE LIMIT (V):) VARIA	TIONALARM (%)	10.0 DE	MATION ALARM	(%):	CHANG	EALARM (%):	ST	RAP ALARM (%):
	SE THIS TEST AS THE BASE		USE DATABASE								
	on CELL#to configure Impedance:	2. Right-Cli	on VARIATION Avg. Impedance:		<i>de reading from</i> I String ∀oltage:			<i>ressed readings</i> w rger: % Mi	<i>ill be displa</i> y n.Voltage: 6		ige: 7.
			CE	LL DATA						CELL DATA	
			IMPEDANCE	(milli-ohms)		VOLTAGE			CELL	SPECIFIC	TEM
#	NOTES	VALUE	% DEVIATION (Baseline)	% VARIATION (String)	% CHANGE (Prev.)	(volts)	TIME	MODEL	NO.	GRAVITY	°C
		1.027		-8.5	-77.7	6.571	15:29	UPS620	1	0	0
2		1.156		3.0	-70.6	7.038	15:30	UPS6-620	2	0	0
3		1.185		5.5	-78.8	7.085	15:30	UPS6-620	3	0	0
								UPS6-620	4		

STRAP #	RESISTANCE (milli-ohms)	% VARIATION (Avg)	MEASUREMENT TIME	CELL CONNECTED TO	TYPE
1	1.72	156.4	15:10	1	Inter-cell
2	0.138	-79.3	15:10	2	Inter-cell
3	0.154	-77.1	15:10	3	Inter-cell

Click in the Cell Model Field.

Cell Information					X
Cell# 1					
Manufacturer: Cell Mode Pilot Cell? Comments:	MEGGER UPS620	Cancel	Date Code: Installation Date:	10/11/2000	

Select the desired battery.

Cell Information			×
Cell# 1			
Manufacturer: Cell Model: Pilot Cell? Comments:	MEGGER UPS620	Date Code: Installation Date:	10/11/2000
	OK Can	cel	

Click on CELL MODEL.

Cell Information					X
Cell# 1					
Manufacturer: Cell Model: Pilot Cell?	MEGGER UPS620	~	Date Code: Installation Date:	10/11/2000	
Comments:					
	OK	Cancel			

Enter new warning and alarm values.

Battery Model Information	X
Basic Information	
Model Name: UPS620	AGM/Gel:
Manufacturer: MEGGER	Plate Type:
Used by # strings:	Plate Count:
Alloy:	Ah Rating:
Vented/Sealed:	KW Rating:
Nom	nal Cell Voltage
Baseline: 1.1	
	Warning % Alarm %
Percent Variation Allowed:	
Percent Change Allowed:	
Percent Deviation Allowed:	
	Discharge Rate Information.
Specific Gravity Measurements Nomir (g/cm ³) Time	
Nominal: 1	
Low Limit: 3	
High Limit: 5	
10	

Click OK to close the Battery Model Window.

Baseline: 1.1	
	Warning % Alarm %
Percent Variation Allowed:	
Percent Change Allowed:	
Percent Deviation Allowed:	
	Discharge Rate Information:
Specific Gravity Measurements (g/cm ³)	Nominal Nominal End Cell Time (h) _Current (A) _ Voltage (V)
Nominal:	
Low Limit:	3
High Limit:	5
riigii Liinii.	10
Delete	New OK Cancel

Click OK to close the Battery Cell Information Window.

Cell Information			X
Cell# 1			
Manufacturer: Cell Model: Pilot Cell?	MEGGER UPS620	Date Code: Installation Date:	10/11/2000
Comments:			
(OK Canc	el	

Selecting a New Battery Cell

Create a battery report.

имптs:	LOW VOLTAGE LI	· · · —		IN WARNING (' TION ALARM ('	·	ATION WARNING	· · ·		WARNING (%):		PWARNING(%) RAPALARM(%)	
1. Click	SE THIS TEST AS TI on CELL#to configu elmpedance: 1.1	re 2				<i>ide reading from</i> al String Voltage:		alysis. Sup v. from Cha	pressed readings v arger: % M	vi <i>li be displa</i> y in.∀oltage: €		ge: 7.08
				c	ELL DATA						CELL DATA	
#	NOTES		VALUE	MPEDAN % DEVIATIO (Baseline)		% CHANGE (Prev.)	VOLTAGE (volts)	TIME	MODEL	CELL No.	SPECIFIC GRAVITY	TEMP. °C
1			1.027	-6.6	-8.5	-77.7	6.571	15:29	UPS620	1	0	0
2			1.156	5.1	3.0	-70.6	7.038	15:30	UPS6-620	2	0	0
3			1.185	7.7	5.5	-78.8	7.085	15:30	UPS6-620	3	0	0
4									UPS6-620	4		
	i. Strap Resistance: on STRAP #to config		Right-Click (on VARIATION	column to exclude	e reading from st	atistical analy	sis. Suppr	essed readings will	be displaye	d in orange.	
STRA	P # RESISTANC (milli-ohms			SUREMENT TIME	CELL CONNECTED TO	TYPE						
1	1.72	156.4		15:10	1	Inter-cell						
2	0.138	-79.3		15:10	2	Inter-cell						
3	0.154	-77.1		15:10	3	inter-cell						

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

имптs:	LOW VOLTAGE LIMIT (V): (HIGH VOLTAGE LIMIT (V): (NWARNING (%): TION ALARM (%):		TION WARNING	· ·		WARNING (%): GE ALARM (%):		P WARNING (%) RAP ALARM (%)	
1. Click	SE THIS TEST AS THE BASEL on CELL # to configure Impedance:		JSE DATABASE k on VARIATION Avg. Impedance:	column to exclud	<i>le reading from</i> I String Voltage:			oressed readings w Irger: % Mir	<i>ill <mark>be display</mark></i> 1.Voltage: 6		ge: 7.08
			CEL	LL DATA						CELL DATA	
			IMPEDANCE	(milli⊦ohms)		VOLTAGE			CELL	SPECIFIC	TEMP.
#	NOTES	VALUE	% DEVIATION (Baseline)	% VARIATION (String)	% CHANGE (Prev.)	(volts)	TIME	MODEL	No.	GRAVITY	°C
\Box		1.027		-8.5	-77.7	6.571	15:29	UPS620	1	0	0
2		1.156		3.0	-70.6	7.038	15:30	UPS6-620	2	0	0
3		1.185		5.5	-78.8	7.085	15:30	UPS6-620	3	0	0
- 4								UPS6-620	4		

Avg. Strap Resistance: 0.670 1. Click on STRAP # to configure

2. Right-Click on VARIATION column to exclude reading from statistical analysis. Suppressed readings will be displayed in orange.

STRAP #	# RESISTANCE %VARIAT (milli-ohms) (Avg)		MEASUREMENT TIME	CELL CONNECTED TO	TYPE	
1	1.72	156.4	15:10	1	Inter-cell	
2	0.138	-79.3	15:10	2	Inter-cell	
3	0.154	-77.1	15:10	3	Inter-cell	

Click in the Cell Model Field.

Cell Information					X
Cell# 1					
Manufacturer: Cell Mode Pilot Cell?	MEGGER UPS620		Date Code: Installation Date:	10/11/2000	
Comments:					
	OK	Cancel			

Select the desired battery.

Cell Information					×
Cell# 1					
Manufacturer:	<u></u>		Date Code	e:	
Cell Model:	UPS620	~	Installation Date	e: 10/11/2000	
Pilot Cell?	UPS600				
Comments:	UPS610 UPS620				
	ОК	Cance	el		

Click OK to close the Battery Cell Information Window.

Inputting a Company Logo

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



Click on OPTIONS.

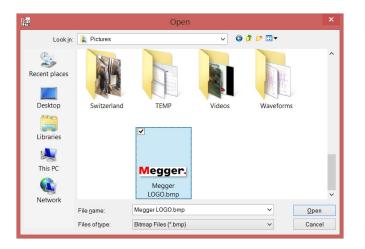
HOME TOOLS HELP					
Reading Data Entry Order View Using Narrow Format Options	Application Log Enable Driver Log Driver Log Set Log Level Hig		PDB How To Licensing License	<u>C</u> urve Library	
General	Logs	Translations	Licensing	Curve Library	
Instrument Sel	ection				Go Back Click here to go
Open Results BITE 2	BITE 3	SMRT	DELTA 4000		-3xx

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.

Megger.

Options	x
AmericanEnglish •	Measurements Default Units: Imperial + Temperature Units: F +
Logos Left C:\Program Files (x86)\Powe Right C:\Users\asagl\Pictures\Me	erDB Inc\PowerDB.v11\powerdb_ Browse Browse
Misc. Options	✓ Indicate dropdown fields on forms ✓ Touch Screen Mode
	OK Cancel

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.

AmericanEnglish	Measurements Default Units: Imperial • Temperature Units: 'F •
Logos Left: C.\Program Files (x86)\ Right C.\Users\asagl\Picture	PowerDB Inc\PowerDB.v11\powerdb_ Browse s\Megger LOGO.bmp Browse
─ Misc. Options Instrument Usage Selection: Basic	✓ Touch Screen Mode
	OK Cancel

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

F1 forform help, RIGHT-CLICK for Megger. www.megger.com	raptions	BATTERY TEST			Meg	ger.
SUBSTATION	VALLEY FORGE	POSITION	Cart	PAGE		1
		AMBIENT TEMPERATURE 32	°E			9:37:00 AM
			F HUMIDITY			
STRING NAME:	Cart	VOLTS PER CELL:	NOMINAL: 2.2	DUTY CY	CLE: 0	Amps
INSTALLATION DATE:		METER. START/SKIP CELLS 1	/ 1		for 0	Minutes
NUMBER OF CELLS: 50	NUMBER OF CELLS / J	IAR: 1 NUMBER OF STRAPS:	50		to 0	VPC

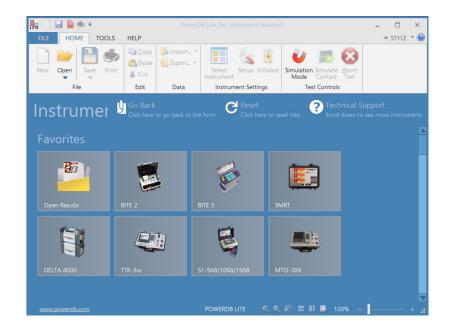
Megger.

Transferring Instrument Setup Data to the BITE3

Click on SELECT INSTRUMENT button to open the home screen.

	HELP		
New Open Save Print	Cut Data	t t t t t t t t t t t t t t	
	rs		
LO	W VOLTAGE LIMIT (V):	HIGH VOLTAGE LIMIT (V):	VARIATION WARNING
DE	VIATION WARNING (%):	DEVIATION ALARM (%):	CHANGE WARNIN(
DE	VIATION WARNING (%): STRAP WARNING (%):	DEVIATION ALARM (%): STRAP ALARM (%):	CHANGE WARNING

Select the BITE 3 by clicking on the BITE3 image.



The following window will open.

Megger_a

Instrument Use:	Battery Tester			
Manufacturer:	AVO / Megger			
Model/Type/Series:	BITE3			
Supported Models:	BITE3			
Model:	BITE3			
Baud Rate: 115200	Ψ	Device Manager	Parity: Stop Bits:	None 1
at USB serial ports can b	be identified by v	viewing the serial port list, plug	iging in the USB port and the	n
ne Refresh button. The l	JSB port will be t	the only new item in the list.	and ment and and	

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

Instrument Configura	tion				>
Instrur	ment Use:	Battery Tes	ster		
Mar	nufacturer:	AVO / Meg	ger		
Model/Typ	e/Series:	BITE3			
Supported	d Models:	BITE3			
	Model:	BITE3			Ŧ
Serial Port	12	•	Refresh	Byte Size:	8 -
Baud Rate:		Ψ.	Device Manager	Parity:	None 👻
				Stop Bits:	1
Note that USB serial hitting the Refresh bu	ports can b tton. The U	e identified JSB port will	by viewing the serial port list, plug be the only new item in the list.	ging in the USB port and the	an
	_		-	ОК	Cancel
Settings	Firmware	e C	configure	UK	Cancel

The following INFORMATION AND SETTINGS Window will open.

	Megger Bite3 - Infor	mation & Settings	
nfiguration Files			
BITE 3 Information		BITE 3 Settings	
Vendor:		Date format:	•
Product		Temperature unit:	
Catalog #:		Language:	-
Serial #:		Line Frequency (Hz):	-
Version #:	^	Suspend Seconds:	-
		Auto Measure:	-
	~	CT Mode:	-
Storage Free:		Decimal separator:	*
Battery:		Friendly name:	
Messages:	^		
	~		
Calibration date:			
Date / time:			
	View Instrument Log	Sync date / time	
Inquire Upda	te		Close

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.

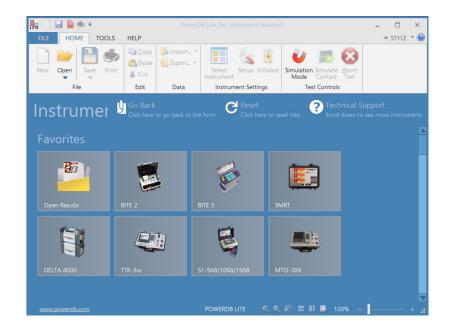
Megger.

Transferring String Configurations to the BITE3

Click on SELECT INSTRUMENT button to open the home screen.

	HELP		
New Open Save Print	Cut Data	t t t t t t t t t t t t t t	
	rs		
LO	W VOLTAGE LIMIT (V):	HIGH VOLTAGE LIMIT (V):	VARIATION WARNING
DE	VIATION WARNING (%):	DEVIATION ALARM (%):	CHANGE WARNIN(
DE	VIATION WARNING (%): STRAP WARNING (%):	DEVIATION ALARM (%): STRAP ALARM (%):	CHANGE WARNING

Select the BITE 3 by clicking on the BITE3 image.



The following window will open.

Megger.

Instrument Use:	Battery Tester			
Manufacturer:	AVO / Megger			
Model/Type/Series:	BITE3			
Supported Models:	BITE3			
Model	BITE3			
Baud Rate: 115200			Parity: Stop Bits:	
at USB serial norts can	be identified by v	viewing the serial port list, plug the only new item in the list.	ging in the USB port and ther	1

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

Instrur	nent Use:	Battery Teste	ttery Tester		
Mar	ufacturer:	AVO / Megge)/Megger		
Model/Typ	e/Series:	BITE3	TE3		
Supported	Supported Models: BITE3				
	Model:	BITE3			
Serial Port	12		Refresh	Byte Size:	
Baud Rate:		Ψ	Device Manager	Parity:	None
				Stop Bits:	
			viewing the serial port list, plug the only new item in the list.	ging in the USB port and the	n
•			,		

The following Configurations Window will open.

Site/String Co Site Name	Show All	~	Configuration Options	
Filtor	SHOW AI	·	New Configuration	
			Delete Configuration	
			Edit Configuration	
			Load Configuration	
			Site	
			String	
			Default	
			Default failure %:	
			Default warning %:	
			Default change allowed	
			Default deviation %:	
			Save	

Configure and install new configuration into the BITE3.

Edit existing configurations in the BITE3.

Delete string configurations in the BITE3.

Megger.

Updating Firmware in the BITE3

Connect the BITE3 to the PC and power up the BITE3.

Click on select instrument button to open the home screen.

FILE HOME TOOLS	HELP		
New Open Save Print	Cut Data	t Initialize thent Settlings	
	rs		
LO	W VOLTAGE LIMIT (V):	HIGH VOLTAGE LIMIT (V):	VARIATION WARNING
DE	VIATION WARNING (%):	DEVIATION ALARM (%):	CHANGE WARNING
	STRAP WARNING (%):	STRAP ALARM (%):	

Select the BITE 3 by clicking on the BITE3 image.

🏭 🗋 🔙 🎍 =	Pov	verDB Lite (No Instrument Selected	l)	- 🗆 ×
FILE HOME TOOLS	HELP			🔺 style 🝷 🙆
New Open Save Print	Cut	4	Simulation Simulate Abort Mode Contact Test	
		A Reset		l
Instrumer	Go Back Click here to go back to		set tiles ? Technical S Scroll down to	support o see more instruments
Favorites				
- BB				
		*		
Open Results				
		8		
DELTA 4000				
www.powerdb.com		POWERDB LITE 🔍 🔍	🦧 🎟 🗉 🔀 100% –	h. +

The following window will open.

Instrument Use:	Battery Tester	
Manufacturer:	AVO / Megger	
Model/Type/Series:	BITE3	
Supported Models:	BITE3	
Model:	BITE3	
Serial Port: 6	* Refresh	Byte Size: 8
Baud Rate: 115200	- Device Manager	Parity: None
		Stop Bits: 1
te that USB serial ports ca ing the Refresh button. Th	n be identified by viewing the serial port list, a USB port will be the only new item in the	plugging in the USB port and then list.

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

Instrument Config	uration			×		
Instrument Use:	Battery Te	ster				
Manufacturer:	AVO / Me	AVO / Megger				
Model/Type/Series:	s: BITE3					
Supported Models:						
Model:	BITE3			-		
Serial Port: 6	Ŧ	Refresh	Byte Size: 8	-		
Baud Rate: 115200	-	Device Manager	Parity: None	-		
			Stop Bits: 1	v		
Note that USB serial ports can be identified by viewing the serial port list, plugging in the USB port and then hitting the Refresh button. The USB port will be the only new item in the list.						
Settings Firmware		onfigure	OK Cancel			

Bite3 - Firm	nware Updates 🛛 💽
Acquire Updates	
BITE 3 (BITE3) - 18.22 - 4.002 - 4.004 - 4.006	Firmware Update Information Product: Catalog #: Version: Release Date: Release Notes: Bite3 Information Vendor: Product: Catalog #: Version: Setial #:
	Query Instrument Update Close

The following BITE3 – FIRMWARE UPDATES Window will open.

Click on the "ACQUIRE UPDATES" button in the top left of the window. You can acquire the BITE3 firmware updates either from a local file on your PC or from the internet.

	Bite3 - Firmware Updates
Acquire Updates	
From File(s) Check for updates (internet)	Firmware Update Information Product: Catalog #: Version: Release Date: Release Notes: Verdor: Product: Catalog #: Verdor: Product: Catalog #: Verdor: Serial #:
	Query Instrument Update Close
1	

Now click the "QUERY INSTRUMENT" button in the bottom right of the WINDOW to get the instrument information required to check which firmware update to apply.

BITE 3 (BITE3)	Firmware Update Info	omation
- 1.6.2.2	Product:	
- 4.0.0.2 - 4.0.0.4 - 4.0.0.6	Catalog #:	
	Version:	
	Release Date:	
	Release Notes:	^
	Bite3 Information	~
	Vendor:	
		Megger
	Product:	BITE 3
	Catalog #:	BITE3
	Version:	1.3.2.0
	Serial #:	9307

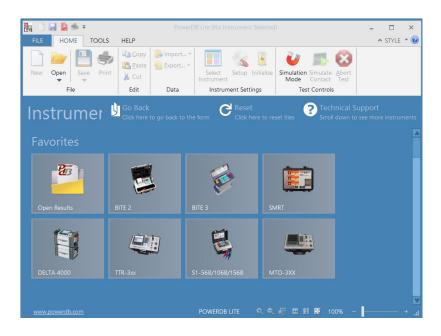
After the query has finished, select the firmware version from the left side of the dialog. The "UPDATE" button in the bottom right will become active if the firmware update is valid. When the "UPDATE" button is active, click it and allow the update to complete.

Bite3 - Fi Acquire Updates	irmware Updates	
BITE 3 (BITE 3) 4002 4004 4006	Firmware Update Info Product: Catalog #: Version: Release Date: Release Notes: Bite 3 Information	BITE 3 BITE3 16.2.2 10/09/2007 Version 1.6.2.2 Ø BITE 3 BITE 3 1.3.2.0 3907
t is recommended that you update this instrument.	Query Instr	rument Update Close

10.

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.

Open				?×
Look <u>i</u> n: 📴 F	rowerDB.∨10	~ (3 🦻 📂 🛄 🔻	
 Megger_Batt Megger_Batt Megger_NEV Megger_NEV Megger_TES Megger_TES 	T_TEST_Darryl.PdbXml T_TEST_Megger.PdbXml	TERY CART.PdbX	Megger Megger	_TEST_TEST, _TEST_Valley _TEST_VALLE
File name:	*.PdbXml)		<u> </u>
Files of <u>type</u> :	PowerDB XML File (*.PdbXm	nl)	· [Open Cancel

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

Open PowerDB XML file		X
Form name: 10750 - BATTERY IMP/(COND TEST	
To view or edit a set of results, select a test date and press the Open button.	Test Date	<u>O</u> pen
To remove a set of results, select a test date and press the Delete button.	6/16/2011 12:07:00 6/16/2011 9:38:00	New
Press the New button to enter another set of test results.	6/16/2011 9:27:00	<u>D</u> elete
	Undo Save	<u>C</u> lose

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

Meg	-	BAT	TERY TEST			Me	gger,
				DATE <u>12</u>	2/14/2015		
			AMBIENT	TEMP	0 °F	JOB #	0001
SUBSTATION	AVO String		ни		%	ASSET ID	
POSITION	Rack Number 3		TEST S	STATUS			
EQUIPMENT LOC	ATION						
	1						
STRING NA	ME: VRLA String		BATTERY TYPE:	VRLA		NUMBER OF JARS:	6
NSTALLATION DA	VTE: 01-23-2013		DUTY CYCLE:	A	Amps	NUMBER OF CELLS:	6
_	HYDROMETER. START/SKIP CELL	S: <u>1</u> / <u>0</u>	for	N	Vinutes N	NUMBER OF CELLS / JAR:	1
	VOLTS PER CELL: NOMINA	L:	to	v	/PC	NUMBER OF STRAPS:	6
CHARGER]						
MANUFACTURE			BATTERY FLOAT CURRE			CHARGER CURRENT:	
MODE	L: CBC		BATTERY RIPPLE CURRE				
			TEST AC CURRE	ENT:	E(QUALIZATION VOLTAGE:	Volts
LIMITS							
LOW VO	LTAGE LIMIT (V): 2 HIGH	OLTAGE LIMIT (V):	2.1 VARIATION	WARNING (9	%): 20.0	VARIATION ALARM	A (%): 30.0
DEVIATIO	N WARNING (%): 30.0 DEV	ATION ALARM (%):	50.0 CHANGE	WARNING (%): 5.0	CHANGE ALARM	A (%): 10.0
STRA	P WARNING (%): 10.0	STRAP ALARM (%):	20.0				

Click on IMPORT / IMPORT PROACTIV DATA

🏤 🗋 🔙 🎽 🔹 =				Megger_Dallas_AVO_No
FILE HOME TOOLS	HELP			
New Open Save Print	ि <u>⊇</u> <u>C</u> opy <u>Paste</u> <u>}</u> Cut	umport ▼ Import Pr	oactiv Data (Open Job) Select Setup Initialize	Simulation Simulate Abort Mode Contact Test
File	Edit	Data	Instrument Settings	Test Controls
F1 for form	egge	er.	for options	BATT

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

PowerDB - ProActiv Database Imp	port	x
This d	lialog imports battery test data from the Megger ProActiv software.	
ProActiv database file	l)
Directory to save PdbXml files in	C:\Users\asagl\Documents\PowerDB.v11\	
	ile is usually named "proactiv.mdb" and is located under the "data" subdirectory of the ProActiv installation directory. g.: "C\Program Files\Megger\ProActiv\Data\proactiv.mdb"	
	Import Close	

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

Brit		Open		×
Look <u>i</u> n:	Documents		✓ 🌀 🌶 📂 🎞 ▼	
Recent places Desktop Libraries	My Mee Notes PowerD PowerD SAP	Office Templates tings e Notebooks B.v10 B.v11	Date modif 2/6/2015 12 7/13/2015 12 12/9/2014 2 9/1/2015 9: 2/29/2016 0 12/14/2015 3/1/2016 11 9/21/2015 1 12/4/2015 2	2:32 PM 1:40 PM 2:07 PM 32 AM 5:57 AM 12:37 PM 1:05 AM 10:37 AM 2:44 PM
This PC	VouSena VouSena demo_d File name: Files of type:	dlt Downloads latabase.mdb demo_database.mdb Proactiv database (*.mdb)	2/5/2016 1: 5/7/2015 10	

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

PowerDB - ProActiv Database In	nport	×
This	dialog imports battery test data from the Megger ProActiv software.	
ProActiv database file	C:\Users\asagl\Documents\demo_database.mdb	
Directory to save PdbXml files in	C:\Users\asagl\Documents\PowerDB.v11\)
	file is usually named "proactiv.mdb" and is located under the "data" subdirectory of the ProActiv installation directory. Eg.: "C:\Program Files\Megger\ProActiv\Data\proactiv.mdb"	
	Import Close	

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.

Browse for Folder		
C:\Users\asagl\Documents\PowerDB.v11 PowerDB.v11		
Documents Documents Losset Documents Losset My Meetings Notes OneNote Notebooks PowerDB.v10	^	
OK Cancel	~	

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

	port	×
This c	dialog imports battery test data from the Megger ProActiv software.	
ProActiv database file	C:\Users\asagl\Documents\demo_database.mdb	
Directory to save PdbXml files in	C:\Users\asagl\Documents\PowerDB.v11\	
	ile is usually named "proactiv.mdb" and is located under the "data" subdirectory of the ProActiv installation directory. g.: "C:\Program Files\Megger\ProActiv\Data\proactiv.mdb"	
	Import Close	

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

PowerDB - ProActiv Datab	ase Import	X
This	dialog imports battery test data from the Megger ProActiv software.	
ProActiv database file	Battery Data Base\ProActiv databases\Data\BITE 3\ProActiv_BITE3_test.mdb	
Directory to save PdbXml files in	C:\Documents and Settings\asagl\My Documents\PowerDB.v10\	
	file is usually named "proactiv.mdb" and is located under the "data" subdirectory of the ProActiv installation directory. g.: "C:\Program Files\Megger\ProActiv\Data\proactiv.mdb"	
[Import Completed. Imported res	Lits were saved as PdbXml files.	

The following message will be displayed. Click on OK.

PowerD	в
1	Import Complete PdbXml files with imported data were saved under C:\Documents and Settings\asagl\My Documents\PowerDB.v10\ Use File->Open to view the data files. The PdbXml file names are based on the organization levels in Proactiv.
	OK