

Annual Inspection Report

System Status: Watch

Company:	XXXXXXX XXXXXXX XXXXXXX, XX XXXXX United States XXXXXXX XXX-XXX-XXXX XXXX@XXX.XXX	Site:	XX XXXXXXX XXXXXXX, XX 66106 United States XXXXXXX XXX-XXX-XXXX XXXX@XXX.XXX
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Facility:	Telecommunications	Application:	DC Plant
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Project

Project Number:	XXXXX.XXXX	Inspection Date:	7/12/2022
System ID:	XXXXXXX	Inspection Type:	Annual
Technicians:	XXXXXXX	Escort:	XXXXXXX

Environment

Ambient Temperature:	72°F	Battery Enclosure:	Room
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Load

Load Type:	Continuous Load	Maximum Load Current:	127.0 Adc
Estimated Runtime:	14.6 Hours	Battery De-rating K:	0.8

*Load Type is based on IEEE Std 485/1115 definition.

*Estimated Runtime is based on the battery de-rating factor of 0.8 (80.0% battery capacity) at the published rate. [if sized for > 2 hours]

*Maximum Load Current is calculated at the String End Voltage

Rectifiers

Number of Rectifiers:	8	Rectifier Redundancy:	N+3
Rectifier Capacity:	250 Adc	Load Sharing:	Yes

Battery

Battery Manufacturer:	DEKA	Battery Model:	12AVR150ET
Battery Type:	VR-AGM	Battery Ah Rating:	150 Ah
Number of Strings:	12	Total # of Cells/Units:	48
Cell End Voltage:	1.75 Vdc	String End Voltage:	42.0 Vdc
Internal Ohmic Meter:	Midtronics Advantage		

Corrective Action**CELL INTERNAL OHMIC**

The following units have internal ohmic readings outside the manufacturers recommended value of 1088.5 mho:

String 5 - Unit 1 [921 mho] - (Δ -167.5 mho) - (59.2% of the nominal value)

String 5 - Unit 2 [1012 mho] - (Δ -76.5 mho) - (65.1% of the nominal value)

String 5 - Unit 4 [908 mho] - (Δ -180.5 mho) - (58.4% of the nominal value)

String 8 - Unit 1 [877 mho] - (Δ -211.5 mho) - (56.4% of the nominal value)

String 8 - Unit 4 [1010 mho] - (Δ -78.5 mho) - (65.0% of the nominal value)

Comment: Strings 5 and 8 should be replaced due to low conductance readings. Both strings are over 6 years old.

Other Comments

See Corrective Action section.

Controller	
Manufacturer	Lineage Power
Model	CPS-23-ACS-PS112-DC1E
Part Number	XXXXXXX
Serial Number	XXXXXXX
Installation Date	9/2020 [2 years, 1 month]
Last Revision Date	9/2020 [2 years, 1 month]
System Size [Adc]	400
System Shunt [Adc/mV]	600
System Voltage Displayed [Vdc]	54.00
System Load Displayed [Adc]	98.5
Alarms	None
Controller Loading [%]	24.6

Rectifiers			
Rectifier 1		Rectifier 2	
Manufacturer	LINAGE	Manufacturer	LINAGE
Model	QS865ATEZ	Model	QS865ATEZ
Serial Number	XXXXXXX	Serial Number	XXXXXXX
Rating [Adc]	50	Rating [Adc]	50
Type	Switch Mode	Type	Switch Mode
Meter Voltage [Vdc]	54.00	Meter Voltage [Vdc]	54.00
Meter Current [Adc]	19.9	Meter Current [Adc]	19.8
Alarms	None	Alarms	None
AC Input Voltage [Vac]	208V/3ø	AC Input Voltage [Vac]	208V/3ø
Status	On-line	Status	On-line
Rectifier 3		Rectifier 4	
Manufacturer	LINAGE	Manufacturer	LINAGE
Model	QS865ATEZ	Model	QS865ATEZ
Serial Number	XXXXXXX	Serial Number	XXXXXXX
Rating [Adc]	50	Rating [Adc]	50
Type	Switch Mode	Type	Switch Mode
Meter Voltage [Vdc]	54.00	Meter Voltage [Vdc]	54.00
Meter Current [Adc]	19.9	Meter Current [Adc]	19.3
Alarms	None	Alarms	None
AC Input Voltage [Vac]	208V/3ø	AC Input Voltage [Vac]	208V/3ø
Status	On-line	Status	On-line
Rectifier 5		Rectifier 6	
Manufacturer	LINAGE	Manufacturer	LINAGE
Model	QS865ATEZ	Model	QS865ATEZ
Serial Number	XXXXXXX	Serial Number	XXXXXXX
Rating [Adc]	50	Rating [Adc]	50
Type	Switch Mode	Type	Switch Mode
Meter Voltage [Vdc]	54.00	Meter Voltage [Vdc]	54.00
Meter Current [Adc]	19.7	Meter Current [Adc]	0
Alarms	None	Alarms	None
AC Input Voltage [Vac]	208V/3ø	AC Input Voltage [Vac]	208V/3ø
Status	On-line	Status	Spare
Rectifier 7		Rectifier 8	
Manufacturer	LINAGE	Manufacturer	LINAGE
Model	QS865ATEZ	Model	QS865ATEZ
Serial Number	XXXXXXX	Serial Number	XXXXXXX
Rating [Adc]	50	Rating [Adc]	50
Type	Switch Mode	Type	Switch Mode
Meter Voltage [Vdc]	54.00	Meter Voltage [Vdc]	54.00
Meter Current [Adc]	0	Meter Current [Adc]	0
Alarms	None	Alarms	None
AC Input Voltage [Vac]	208V/3ø	AC Input Voltage [Vac]	208V/3ø
Status	Spare	Status	Spare

Battery Visual		
Environment	Evaluation	Comment
Battery Room Cleanliness	Ok	
Safety Placards	Ok	
Eyewash/Shower	Ok	
Eyewash/Shower Expiration Date	Ok	10/2024
Ventilation	Ok	
Fire Suppression	Ok	
Arc Flash Signage	Ok	
Spill Containment	Not Applicable	
Visual	Evaluation	Comment
Battery Monitor	Ok	BEM monitor was cleaned and inspected.
Rack/Cabinet	Ok	
Electrolyte Level	Not Applicable	
Posts	Ok	
Connections	Ok	
Valves/Arrestors	Not Applicable	
Catalyst	Not Applicable	
Covers	Ok	
Jars	Ok	
External Post Seals	Ok	
Internal Post Seals	Not Applicable	
Positive Plates	Not Applicable	
Negative Plates	Not Applicable	
Sediment	Not Applicable	

Battery Model				
	Value	Low	High	Note
Battery Manufacturer	DEKA	-	-	Battery manufacturer name.
Battery Model	12AVR150ET	-	-	Battery model name.
Battery Type	VR-AGM	-	-	Battery chemistry.
Battery Ah Rating [Ah]	150	-	-	The base Ah rating provided by the manufacturer.
Cells Per Measurement Unit	6	-	-	The smallest number of cells that measurements can be taken; regardless of the number of cells in a physical module.
Min Ambient Temp. [°F]	50	< 50 °F	-	Manufacturer's recommended minimum ambient temperature.
Max Ambient Temp. [°F]	90	-	> 90 °F	Manufacturer's recommended maximum ambient temperature.
Voltage Temp. Corr. [Vdc]	0.0028	-	-	Float voltage temperature correction value per cell/per °F.
Nom Set Point Voltage [Vpc]	2.25	-	-	Manufacturer's recommended nominal string float voltage set point per cell.
Min Set Point Voltage [Vpc]	2.23	< 53.86 Vdc	-	Manufacturer's recommended minimum temperature corrected string float voltage set point per cell.
Max Set Point Voltage [Vpc]	2.27	-	> 54.82 Vdc	Manufacturer's recommended maximum temperature corrected string float voltage set point per cell.
Cell Voltage Flagging Method	Range from Average	-	-	Method used to flag cell voltages for potential corrective action as determined by the manufacturer.
Range [±Vpc]	0.05	-	-	Range from average value [13.51 Vdc] when cell/unit voltage flagging modus is 'Range from Average'. This range is not temperature corrected.
Min Cell Voltage [Vpc]		< 13.2100 Vdc	-	Manufacturer's recommended minimum cell/unit voltage.
Max Cell Voltage [Vpc]		-	> 13.8100 Vdc	Manufacturer's recommended maximum cell/unit voltage.
Nom Specific Gravity		NaN	-	Manufacturer's specified nominal specific gravity.
Specific Gravity Flag [Points]	50	-	-	Maximum number of points below the nominal specific gravity.
Internal Ohmic Type	Conductance	-	-	Internal ohmic measurement type.
Nom Int. Ohmic Value [mhos]	1555	< 1088.5 mhos	-	Manufacturer's specified nominal internal conductance. ('Approaching' value is [1244 mhos], calculated at 66% of the Internal Ohmic Flag [%])
Internal Ohmic Flag [%]	30	-	-	Percentage of nominal internal ohmic value.
Max inter-cell drop [mV]	30	-	> 2041 μΩ	Maximum recommended voltage drop, at the maximum string current, used to determine maximum Inter-cell Connection Resistance.
Max inter-tier drop [mV]	100	-	> 6803 μΩ	Maximum recommended voltage drop, at the maximum string current, used to determine maximum Inter-tier Connection Resistance.
Inter-cell Baseline [μΩ]		-	NaN	Inter-cell connection resistance baseline used to determine maximum Inter-cell Connection Resistance. (20% above the baseline value)
Inter-tier Baseline [μΩ]		-	NaN	Inter-tier connection resistance baseline used to determine maximum Inter-tier Connection Resistance. (20% above the baseline value)
Initial Torque	100	-	-	Manufacturer's specified initial torque value for connections.
Retorque	100	-	-	Manufacturer's specified retorque value for connections.
Torque Units	In-Lb	-	-	Units of torque. Inch-Pound or Newton-Metre.
High Float K [Adc]	.05	-	> 0.23 Adc	Maximum recommended value (per 100Ah x3).
High Ripple K [Aac]	5.0	-	> 7.5 Aac	Maximum recommended value (per 100Ah).
Internal Ohmic Meter	Midtronics Advantage	-	-	Internal ohmic meter used for this inspection.

Battery Strings	
String 1	
# Cells/Units	4
Installation Date	9/2020 [2 years, 1 month]
String Vac	0.001
P-Gnd Vac	0.0
N-Gnd Vac	0.001
String Aac	0.04
String Vdc	54.1
String Adc	0.05
P-Gnd Vdc	0.005
N-Gnd Vdc	54.1
P-Term R	
N-Term R	
# of Conductors per Polarity	1
Battery Conductor Size	#2
Rack Ground Conductor Size	#6
OCP Type	Breaker
OCP Rating [Adc]	400
EPO	No
Maximum String Current [Adc]	14.7 [The maximum string current was calculated from the sum of the Rectifier Ratings if recharging in current limit]
Rack Type	Stack
Cell Orientation	Normal
Cell Labeling	Cell 1 Most Positive
Charge State	Float
String 2	
# Cells/Units	4
Installation Date	9/2020 [2 years, 1 month]
String Vac	0.001
P-Gnd Vac	0.0
N-Gnd Vac	0.001
String Aac	0.04
String Vdc	54.1
String Adc	0.05
P-Gnd Vdc	0.005
N-Gnd Vdc	54.1
P-Term R	
N-Term R	
# of Conductors per Polarity	1
Battery Conductor Size	#2
Rack Ground Conductor Size	#6
OCP Type	Breaker
OCP Rating [Adc]	400
EPO	No
Maximum String Current [Adc]	14.7 [The maximum string current was calculated from the sum of the Rectifier Ratings if recharging in current limit]
Rack Type	Stack
Cell Orientation	Normal
Cell Labeling	Cell 1 Most Positive
Charge State	Float

Battery Strings**String 3**

# Cells/Units	4
Installation Date	9/2020 [2 years, 1 month]
String Vac	0.001
P-Gnd Vac	0.0
N-Gnd Vac	0.001
String Aac	0.04
String Vdc	54.1
String Adc	0.05
P-Gnd Vdc	0.005
N-Gnd Vdc	54.1
P-Term R	
N-Term R	
# of Conductors per Polarity	1
Battery Conductor Size	#2
Rack Ground Conductor Size	#6
OCP Type	Breaker
OCP Rating [Adc]	400
EPO	No
Maximum String Current [Adc]	14.7 [The maximum string current was calculated from the sum of the Rectifier Ratings if recharging in current limit]
Rack Type	Stack
Cell Orientation	Normal
Cell Labeling	Cell 1 Most Positive
Charge State	Float

String 4

# Cells/Units	4
Installation Date	9/2020 [2 years, 1 month]
String Vac	0.001
P-Gnd Vac	0.0
N-Gnd Vac	0.001
String Aac	0.04
String Vdc	54.1
String Adc	0.05
P-Gnd Vdc	0.005
N-Gnd Vdc	54.1
P-Term R	
N-Term R	
# of Conductors per Polarity	1
Battery Conductor Size	#2
Rack Ground Conductor Size	#6
OCP Type	Breaker
OCP Rating [Adc]	400
EPO	No
Maximum String Current [Adc]	14.7 [The maximum string current was calculated from the sum of the Rectifier Ratings if recharging in current limit]
Rack Type	Stack
Cell Orientation	Normal
Cell Labeling	Cell 1 Most Positive
Charge State	Float

Battery Strings	
String 5	
# Cells/Units	4
Installation Date	12/2015 [6 years, 10 months]
String Vac	0.001
P-Gnd Vac	0.0
N-Gnd Vac	0.001
String Aac	0.04
String Vdc	54.1
String Adc	0.18
P-Gnd Vdc	0.005
N-Gnd Vdc	54.1
P-Term R	
N-Term R	
# of Conductors per Polarity	1
Battery Conductor Size	#2
Rack Ground Conductor Size	#6
OCP Type	Breaker
OCP Rating [Adc]	400
EPO	No
Maximum String Current [Adc]	14.7 [The maximum string current was calculated from the sum of the Rectifier Ratings if recharging in current limit]
Rack Type	Stack
Cell Orientation	Normal
Cell Labeling	Cell 1 Most Positive
Charge State	Float
String 6	
# Cells/Units	4
Installation Date	9/2020 [2 years, 1 month]
String Vac	0.001
P-Gnd Vac	0.0
N-Gnd Vac	0.001
String Aac	0.04
String Vdc	54.1
String Adc	0.05
P-Gnd Vdc	0.005
N-Gnd Vdc	54.1
P-Term R	
N-Term R	
# of Conductors per Polarity	1
Battery Conductor Size	#2
Rack Ground Conductor Size	#6
OCP Type	Breaker
OCP Rating [Adc]	400
EPO	No
Maximum String Current [Adc]	14.7 [The maximum string current was calculated from the sum of the Rectifier Ratings if recharging in current limit]
Rack Type	Stack
Cell Orientation	Normal
Cell Labeling	Cell 1 Most Positive
Charge State	Float

Battery Strings	
String 7	
# Cells/Units	4
Installation Date	9/2020 [2 years, 1 month]
String Vac	0.001
P-Gnd Vac	0.0
N-Gnd Vac	0.001
String Aac	0.04
String Vdc	54.1
String Adc	0.05
P-Gnd Vdc	0.005
N-Gnd Vdc	54.1
P-Term R	
N-Term R	
# of Conductors per Polarity	1
Battery Conductor Size	#2
Rack Ground Conductor Size	#6
OCP Type	Breaker
OCP Rating [Adc]	400
EPO	No
Maximum String Current [Adc]	14.7 [The maximum string current was calculated from the sum of the Rectifier Ratings if recharging in current limit]
Rack Type	Stack
Cell Orientation	Normal
Cell Labeling	Cell 1 Most Positive
Charge State	Float
String 8	
# Cells/Units	4
Installation Date	12/2015 [6 years, 10 months]
String Vac	0.001
P-Gnd Vac	0.0
N-Gnd Vac	0.001
String Aac	0.04
String Vdc	54.1
String Adc	0.14
P-Gnd Vdc	0.005
N-Gnd Vdc	54.1
P-Term R	
N-Term R	
# of Conductors per Polarity	1
Battery Conductor Size	#2
Rack Ground Conductor Size	#6
OCP Type	Breaker
OCP Rating [Adc]	400
EPO	No
Maximum String Current [Adc]	14.7 [The maximum string current was calculated from the sum of the Rectifier Ratings if recharging in current limit]
Rack Type	Stack
Cell Orientation	Normal
Cell Labeling	Cell 1 Most Positive
Charge State	Float

Battery Strings**String 9**

# Cells/Units	4
Installation Date	9/2020 [2 years, 1 month]
String Vac	0.001
P-Gnd Vac	0.0
N-Gnd Vac	0.001
String Aac	0.04
String Vdc	54.1
String Adc	0.05
P-Gnd Vdc	0.005
N-Gnd Vdc	54.1
P-Term R	
N-Term R	
# of Conductors per Polarity	1
Battery Conductor Size	#2
Rack Ground Conductor Size	#6
OCP Type	Breaker
OCP Rating [Adc]	400
EPO	No
Maximum String Current [Adc]	14.7 [The maximum string current was calculated from the sum of the Rectifier Ratings if recharging in current limit]
Rack Type	Stack
Cell Orientation	Normal
Cell Labeling	Cell 1 Most Positive
Charge State	Float

String 10

# Cells/Units	4
Installation Date	9/2020 [2 years, 1 month]
String Vac	0.001
P-Gnd Vac	0.0
N-Gnd Vac	0.001
String Aac	0.04
String Vdc	54.1
String Adc	0.05
P-Gnd Vdc	0.005
N-Gnd Vdc	54.1
P-Term R	
N-Term R	
# of Conductors per Polarity	1
Battery Conductor Size	#2
Rack Ground Conductor Size	#6
OCP Type	Breaker
OCP Rating [Adc]	400
EPO	No
Maximum String Current [Adc]	14.7 [The maximum string current was calculated from the sum of the Rectifier Ratings if recharging in current limit]
Rack Type	Stack
Cell Orientation	Normal
Cell Labeling	Cell 1 Most Positive
Charge State	Float

Battery Strings**String 11**

# Cells/Units	4
Installation Date	9/2020 [2 years, 1 month]
String Vac	0.001
P-Gnd Vac	0.0
N-Gnd Vac	0.001
String Aac	0.04
String Vdc	54.1
String Adc	0.05
P-Gnd Vdc	0.005
N-Gnd Vdc	54.1
P-Term R	
N-Term R	
# of Conductors per Polarity	1
Battery Conductor Size	#2
Rack Ground Conductor Size	#6
OCP Type	Breaker
OCP Rating [Adc]	400
EPO	No
Maximum String Current [Adc]	14.7 [The maximum string current was calculated from the sum of the Rectifier Ratings if recharging in current limit]
Rack Type	Stack
Cell Orientation	Normal
Cell Labeling	Cell 1 Most Positive
Charge State	Float

String 12

# Cells/Units	4
Installation Date	9/2020 [2 years, 1 month]
String Vac	0.001
P-Gnd Vac	0.0
N-Gnd Vac	0.001
String Aac	0.04
String Vdc	54.1
String Adc	0.05
P-Gnd Vdc	0.005
N-Gnd Vdc	54.1
P-Term R	
N-Term R	
# of Conductors per Polarity	1
Battery Conductor Size	#2
Rack Ground Conductor Size	#6
OCP Type	Breaker
OCP Rating [Adc]	400
EPO	No
Maximum String Current [Adc]	14.7 [The maximum string current was calculated from the sum of the Rectifier Ratings if recharging in current limit]
Rack Type	Stack
Cell Orientation	Normal
Cell Labeling	Cell 1 Most Positive
Charge State	Float

Unit Summary

Internal ohmic values are shown in conductance and were obtained using a Midtronics Advantage meter.

Internal ohmic values shown in orange are approaching the recommended value - defined as 66 % of the Internal Ohmic Flag [%].

4 decimal places are used for unit voltage temperature correction calculations. [0.0028 Vdc per cell/per °F]

Connection resistance readings are shown in $\mu\Omega$.

The connection resistance for a given cell represents the resistance of the connection between that unit and the next unit.

A connection resistance reading suffix of 'J' indicates an inter-tier or inter-rack connection.

Unit temperatures were obtained at the negative post with an infrared thermometer.

Not all readings are applicable to every system type, battery type, inspection type, or inspection configuration.

Average/Maximum/Minimum Values

	Voltage	Internal Ohmic	Specific Gravity	Temperature	Inter-Cell R	Jumper R
Average	13.510	1714	-	69.0	-	-
Maximum	13.597	1920	-	69.0	-	-
Minimum	13.364	877	-	69.0	-	-

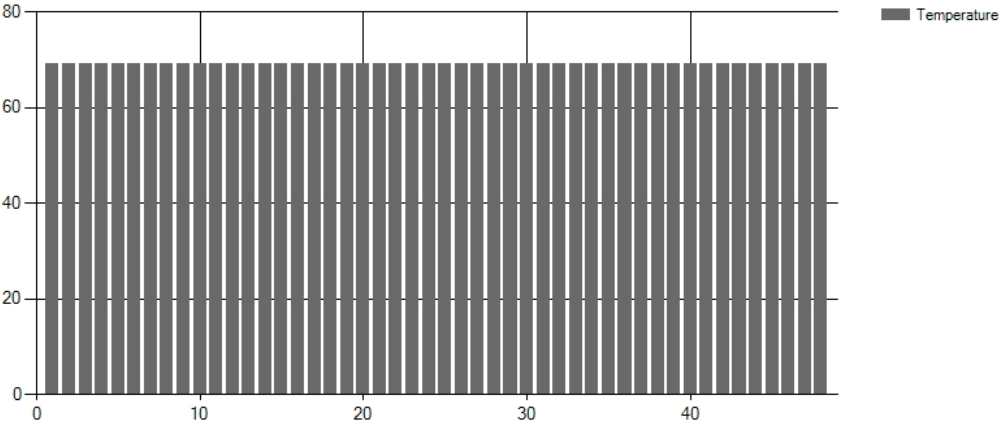
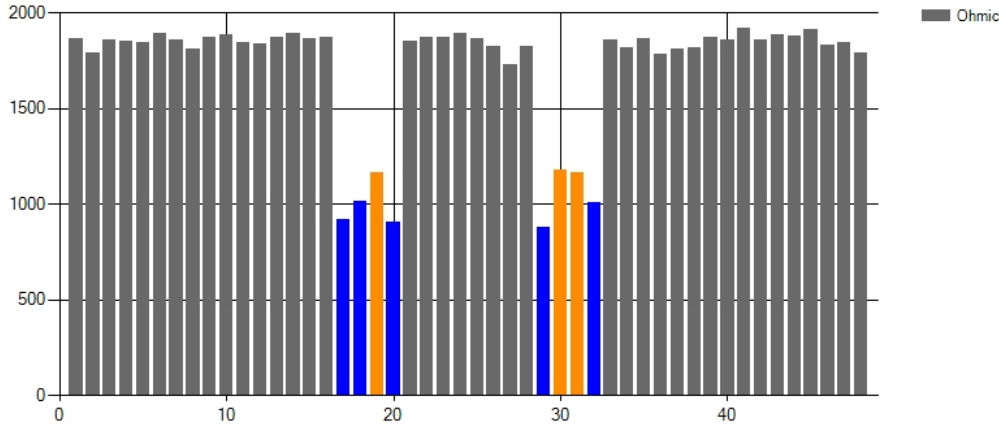
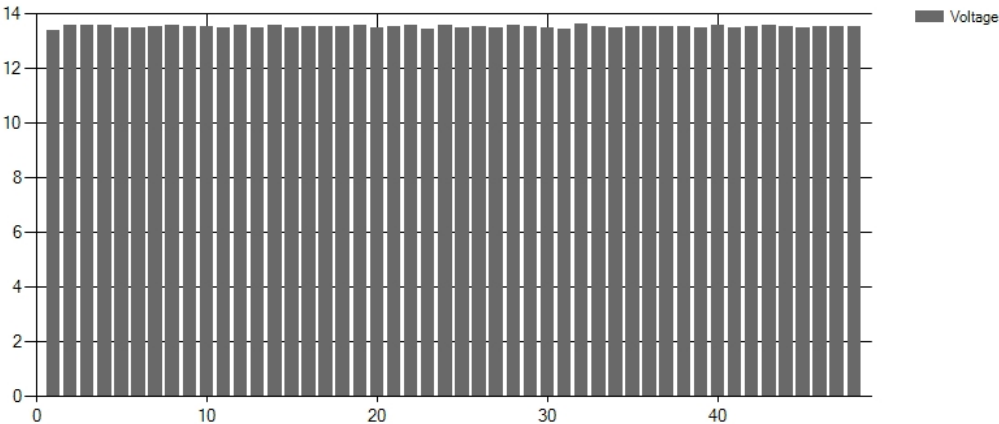
The average internal ohmic value [1714] is 110.2% of the manufacturers published reference value [1555].

Highest and Lowest Values

	Highest	Lowest
Voltage	String 8 - Unit 4	String 1 - Unit 1
Ohmic	String 11 - Unit 1	String 8 - Unit 1
Specific Gravity	-	-
Temperature	String 1 - Unit 1 (and 47 others)	-
Inter-Cell R	-	-
Jumper R	-	-

Unit Readings							
ID	Voltage	Internal Ohmic	Specific Gravity	Temperature	Inter-cell R [A]	Inter-cell R [B]	Inter-cell R [C]
String 1 - Unit 1	13.364	1866		69			
String 1 - Unit 2	13.552	1788		69			
String 1 - Unit 3	13.546	1860		69			
String 1 - Unit 4	13.580	1848		69			
String 2 - Unit 1	13.454	1842		69			
String 2 - Unit 2	13.471	1890		69			
String 2 - Unit 3	13.534	1854		69			
String 2 - Unit 4	13.574	1812		69			
String 3 - Unit 1	13.500	1872		69			
String 3 - Unit 2	13.529	1884		69			
String 3 - Unit 3	13.460	1842		69			
String 3 - Unit 4	13.556	1836		69			
String 4 - Unit 1	13.482	1872		69			
String 4 - Unit 2	13.552	1890		69			
String 4 - Unit 3	13.466	1866		69			
String 4 - Unit 4	13.534	1872		69			
String 5 - Unit 1	13.500	921		69			
String 5 - Unit 2	13.523	1012		69			
String 5 - Unit 3	13.552	1165		69			
String 5 - Unit 4	13.466	908		69			
String 6 - Unit 1	13.511	1848		69			
String 6 - Unit 2	13.556	1872		69			
String 6 - Unit 3	13.420	1872		69			
String 6 - Unit 4	13.546	1890		69			
String 7 - Unit 1	13.454	1866		69			
String 7 - Unit 2	13.534	1824		69			
String 7 - Unit 3	13.482	1728		69			
String 7 - Unit 4	13.562	1824		69			
String 8 - Unit 1	13.523	877		69			
String 8 - Unit 2	13.494	1178		69			
String 8 - Unit 3	13.425	1167		69			
String 8 - Unit 4	13.597	1010		69			
String 9 - Unit 1	13.540	1854		69			
String 9 - Unit 2	13.460	1818		69			
String 9 - Unit 3	13.505	1866		69			
String 9 - Unit 4	13.534	1782		69			
String 10 - Unit 1	13.500	1812		69			
String 10 - Unit 2	13.500	1818		69			
String 10 - Unit 3	13.488	1872		69			
String 10 - Unit 4	13.552	1860		69			
String 11 - Unit 1	13.471	1920		69			
String 11 - Unit 2	13.505	1860		69			
String 11 - Unit 3	13.568	1884		69			
String 11 - Unit 4	13.500	1878		69			
String 12 - Unit 1	13.449	1914		69			
String 12 - Unit 2	13.529	1830		69			
String 12 - Unit 3	13.529	1842		69			
String 12 - Unit 4	13.540	1788		69			

Battery Unit Charts



Battery Date Codes					
ID	Serial Number	Date Code	ID	Serial Number	Date Code
String 1 - Unit 1	11061315	09/20 [0 years, 1 month]	String 1 - Unit 2	11061312	09/20 [0 years, 1 month]
String 1 - Unit 3	11061311	09/20 [0 years, 1 month]	String 1 - Unit 4	11061313	09/20 [0 years, 1 month]
String 2 - Unit 1	11061300	09/20 [0 years, 1 month]	String 2 - Unit 2	11061302	09/20 [0 years, 1 month]
String 2 - Unit 3	11061301	09/20 [0 years, 1 month]	String 2 - Unit 4	11061297	09/20 [0 years, 1 month]
String 3 - Unit 1	11061303	09/20 [0 years, 1 month]	String 3 - Unit 2	11061320	09/20 [0 years, 1 month]
String 3 - Unit 3	11061198	09/20 [0 years, 1 month]	String 3 - Unit 4	11061299	09/20 [0 years, 1 month]
String 4 - Unit 1	11061296	09/20 [0 years, 1 month]	String 4 - Unit 2	11061239	09/20 [0 years, 1 month]
String 4 - Unit 3	11061237	09/20 [0 years, 1 month]	String 4 - Unit 4	11061208	09/20 [0 years, 1 month]
String 5 - Unit 1	98761	11/2015 [6 years, 11 months]	String 5 - Unit 2	98762	11/2015 [6 years, 11 months]
String 5 - Unit 3	98763	11/2015 [6 years, 11 months]	String 5 - Unit 4	98764	11/2015 [6 years, 11 months]
String 6 - Unit 1	140702147	09/20 [0 years, 1 month]	String 6 - Unit 2	140602086	09/20 [0 years, 1 month]
String 6 - Unit 3	140702144	09/20 [0 years, 1 month]	String 6 - Unit 4	140702145	09/20 [0 years, 1 month]
String 7 - Unit 1	11061304	09/20 [0 years, 1 month]	String 7 - Unit 2	11061318	09/20 [0 years, 1 month]
String 7 - Unit 3	11061307	09/20 [0 years, 1 month]	String 7 - Unit 4	11061306	09/20 [0 years, 1 month]
String 8 - Unit 1	98765	11/2015 [6 years, 11 months]	String 8 - Unit 2	98766	11/2015 [6 years, 11 months]
String 8 - Unit 3	98767	11/2015 [6 years, 11 months]	String 8 - Unit 4	98768	11/2015 [6 years, 11 months]
String 9 - Unit 1	11061271	09/20 [0 years, 1 month]	String 9 - Unit 2	11061270	09/20 [0 years, 1 month]
String 9 - Unit 3	11061272	09/20 [0 years, 1 month]	String 9 - Unit 4	11061254	09/20 [0 years, 1 month]
String 10 - Unit 1	11061273	09/20 [0 years, 1 month]	String 10 - Unit 2	11061274	09/20 [0 years, 1 month]
String 10 - Unit 3	11061283	09/20 [0 years, 1 month]	String 10 - Unit 4	11061245	09/20 [0 years, 1 month]
String 11 - Unit 1	140602087	09/20 [0 years, 1 month]	String 11 - Unit 2	140602084	09/20 [0 years, 1 month]
String 11 - Unit 3	140702151	09/20 [0 years, 1 month]	String 11 - Unit 4	140702147	09/20 [0 years, 1 month]
String 12 - Unit 1	140702148	09/20 [0 years, 1 month]	String 12 - Unit 2	140602088	09/20 [0 years, 1 month]
String 12 - Unit 3	140602094	09/20 [0 years, 1 month]	String 12 - Unit 4	140602085	09/20 [0 years, 1 month]

Advanced Testing		
	Evaluation	Comment
Battery Monitor Verification	Ok	BEM monitor readings were verified.
Electronics Thermal Scan	Ok	
Battery Thermal Scan	Ok	
System Thermography Audit	Not Applicable	
Reference Electrode Readings	Not Applicable	
Cell Pressure Test	Not Applicable	
Insulation Test	Not Applicable	
Inter-Cell Connection Torque	Ok	All connections were retorqued.
Nodular Corrosion Detection	Not Applicable	
Set Charger Setpoints	Not Applicable	
Tested Charger Setpoints	Not Applicable	

Images

Higher resolution photographs are available upon request.

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Location

