

C&D Dynasty

Battery Dataset Detail Report

C&D Dynasty

UPS12-270FR

AMO 3rd Floor, Dania, FL

Readings taken 06/23/2003

<u>Cell</u>	<u>Voltage</u>	<u>Internal Res.</u>	<u>Intercell R1</u>	<u>Intercell R2</u>	<u>Intercell R3</u>	<u>Intercell R4</u>	<u>Temp. (F)</u>	<u>S.G.</u>
1	13.540	4120	18	0	0	0	0.0	0.000
2	13.680	4191	186	0	0	0	0.0	0.000
3	13.508	3970	285	0	0	0	0.0	0.000
4	13.548	4345	1114	0	0	0	0.0	0.000
5	13.616	3969	42	0	0	0	0.0	0.000
6	13.816	4485	6	0	0	0	0.0	0.000
7	13.548	3897	264	0	0	0	0.0	0.000
8	13.652	4195	109	0	0	0	0.0	0.000
9	13.620	4122	67	0	0	0	0.0	0.000
10	13.612	4569	8	0	0	0	0.0	0.000
11	13.472	3676	345	0	0	0	0.0	0.000
12	13.376	5126	193	0	0	0	0.0	0.000
13	13.572	4044	17	0	0	0	0.0	0.000
14	13.908	4419	105	0	0	0	0.0	0.000
15	13.808	3970	346	0	0	0	0.0	0.000
16	13.456	4494	114	0	0	0	0.0	0.000
17	13.832	4485	12	0	0	0	0.0	0.000
18	13.620	5638	5	0	0	0	0.0	0.000
19	13.548	4114	994	0	0	0	0.0	0.000
20	13.572	4338	27	0	0	0	0.0	0.000
21	13.304	4118	434	0	0	0	0.0	0.000
22	13.492	4345	436	0	0	0	0.0	0.000
23	13.528	4265	47	0	0	0	0.0	0.000
24	13.512	4644	196	0	0	0	0.0	0.000
25	13.732	4268	123	0	0	0	0.0	0.000
26	13.484	4559	140	0	0	0	0.0	0.000

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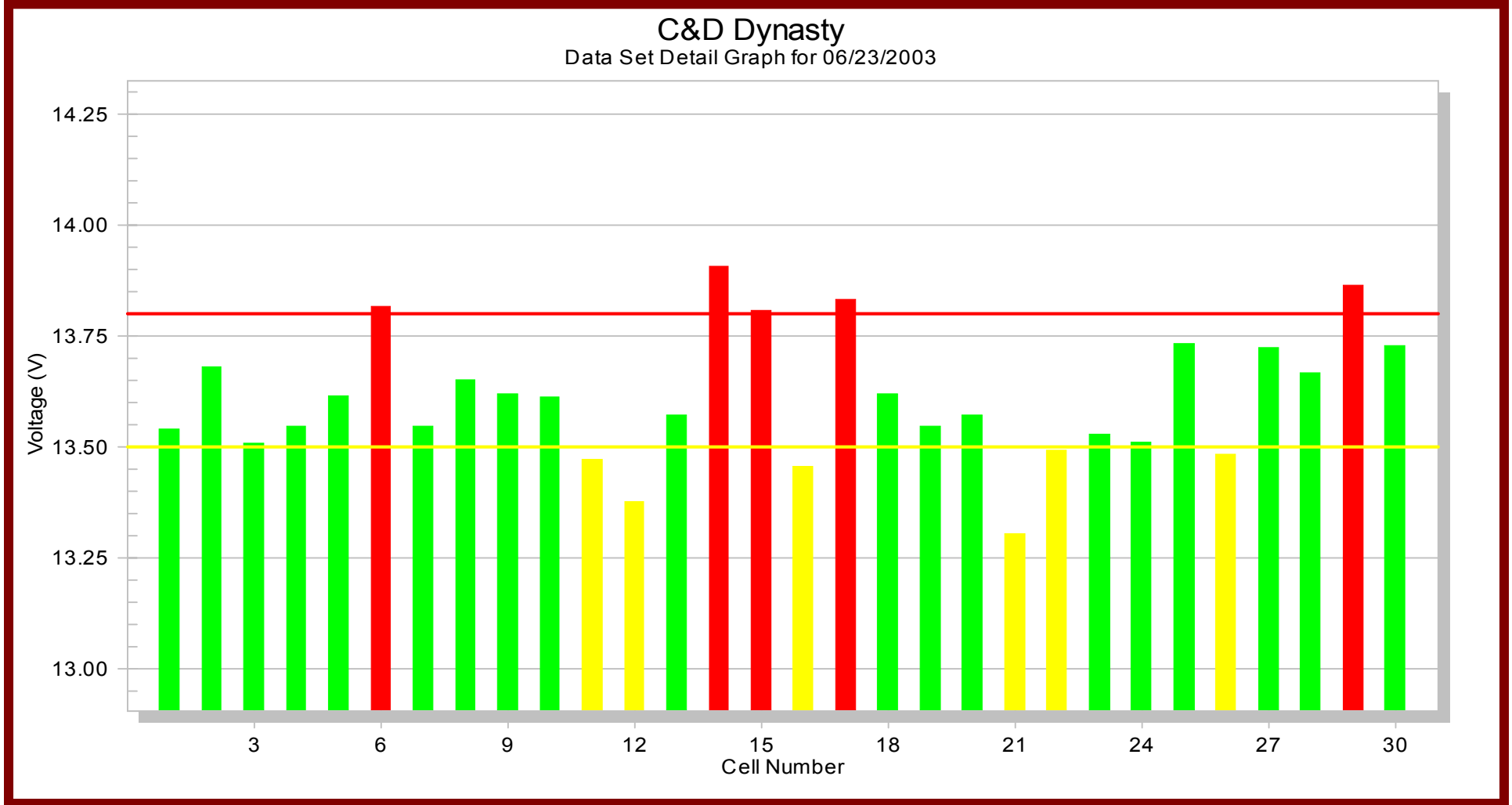
<u>Cell</u>	<u>Voltage</u>	<u>Internal Res.</u>	<u>Intercell R1</u>	<u>Intercell R2</u>	<u>Intercell R3</u>	<u>Intercell R4</u>	<u>Temp. (F)</u>	<u>S.G.</u>
27	13.724	4198	615	0	0	0	0.0	0.000
28	13.668	4265	12	0	0	0	0.0	0.000
29	13.864	4260	70	0	0	0	0.0	0.000
30	13.728	4332	4	0	0	0	0.0	0.000
<u>Summary</u>	<u>Voltage</u>	<u>Internal Res.</u>	<u>Intercell R1</u>	<u>Intercell R2</u>	<u>Intercell R3</u>	<u>Intercell R4</u>	<u>Temp. (F)</u>	<u>S.G.</u>
High	13.908	5638	1114	0	0	0	0.0	0.000
Avg	13.611	4268	211	0	0	0	0.0	0.000
Low	13.304	3676	4	0	0	0	0.0	0.000
O.V.	408.3							

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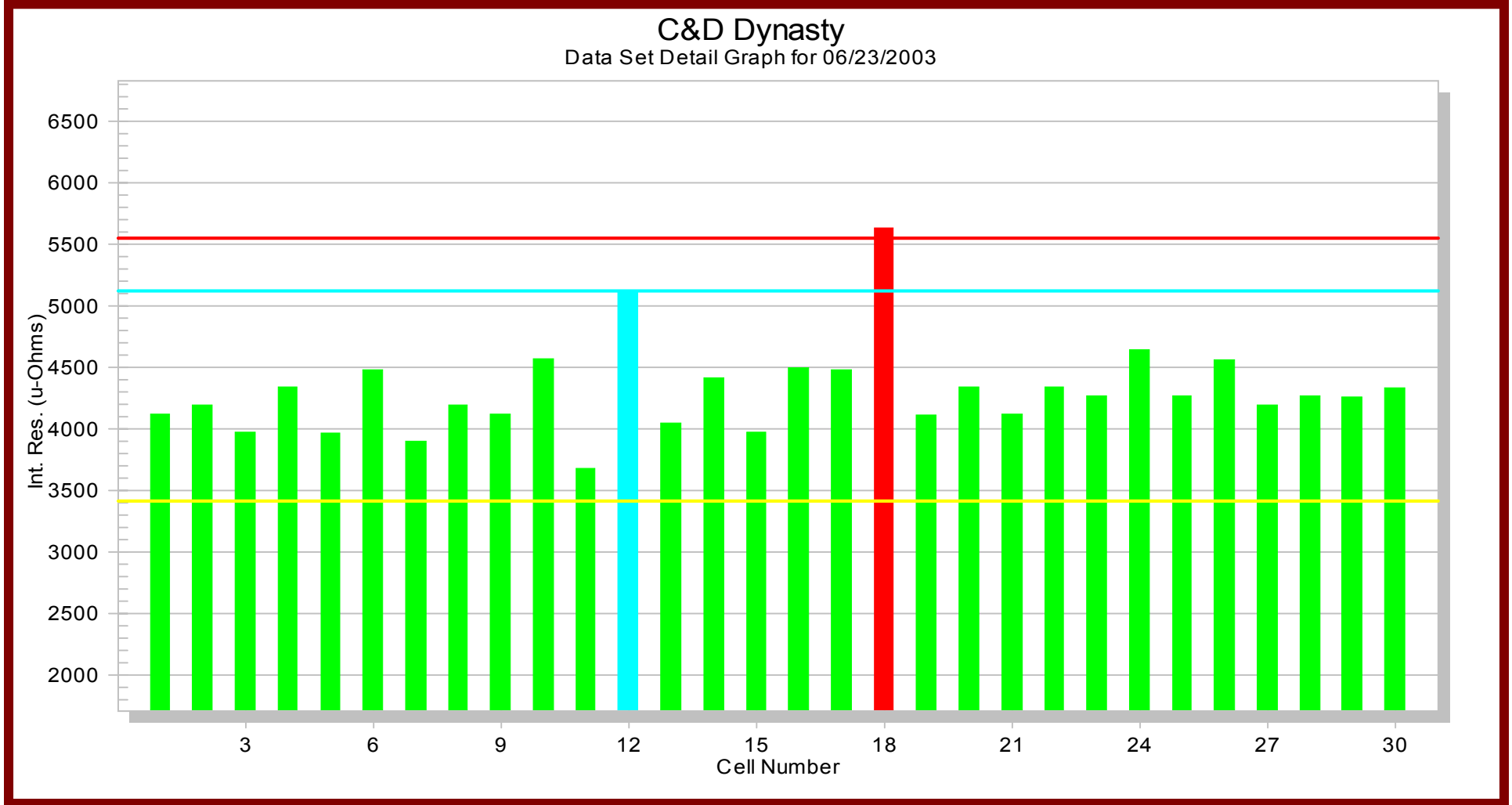


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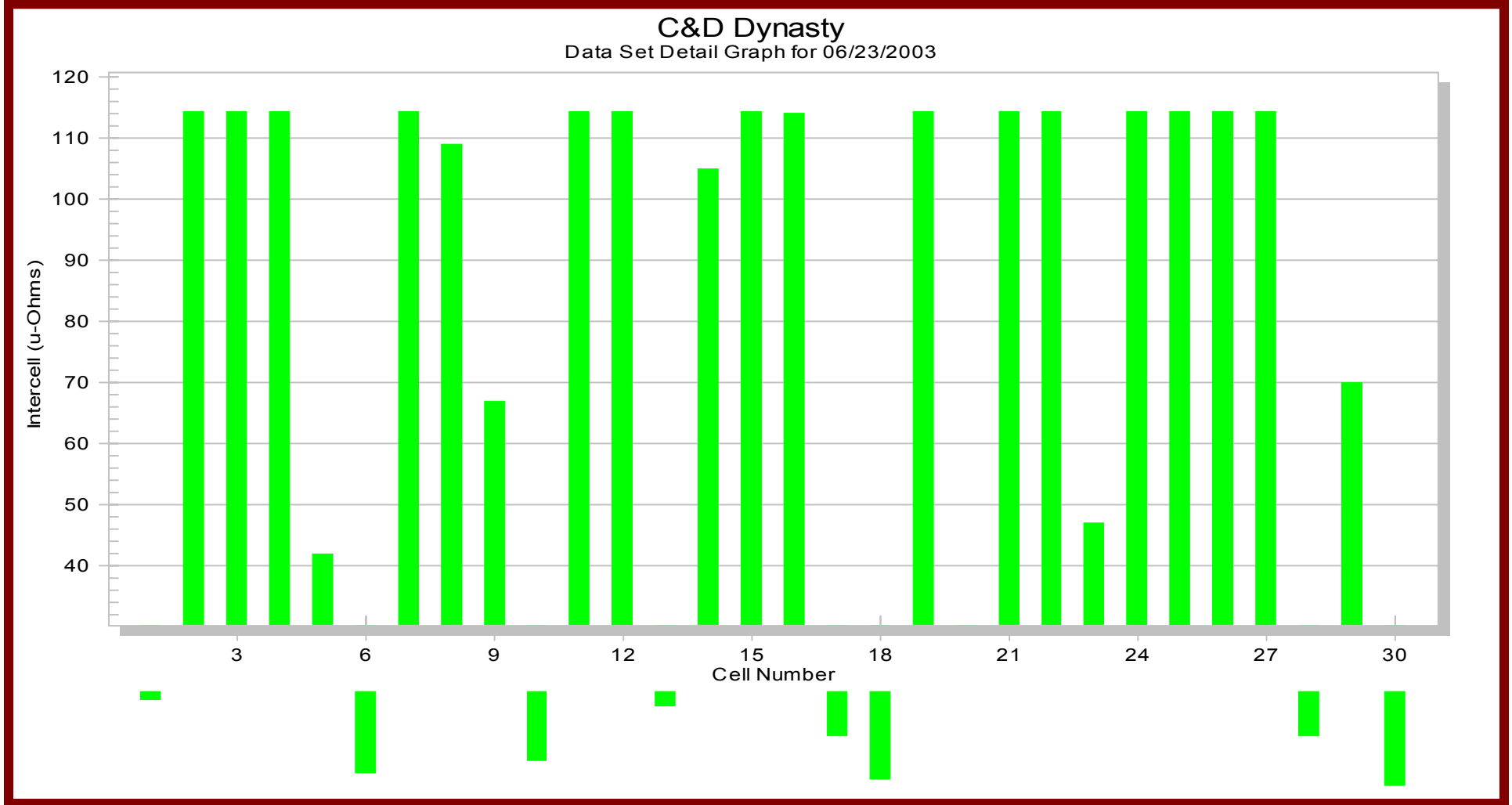


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Comments

General Notes:

1. Typical internal resistances (in mili ohms) for new Dynasty UPS12-270FR batteries is 3700 mili ohms. No battery sh resistance in a given string. Dynasty recommends replacing batteries that exceed 5500 mh. Cell number 1 replaced per factory recommenations. The average unit resistance for this string was calculated at 4268 mh. Therefor, the average is 5122 mh. cell number 12 exceeds this value and should be checked in 1 month.

2. The float voltage range per Dynasty is 13.5 to 13.8 volts per battery. When a string of batteries is examined, it is normal for the unit voltages to vary however, e battery should be within the defined voltage range previously mentioned. When individual battery voltages fall ou bring the voltages back into the acceptable range. If the batteries that are being overcharged or undercharged are not correc

3. The resistance readings of the inter-cell connectors varied greatly. This can only be corrected by removing the

Conclusion:

Within the next year, we could expect this string of batteries to enter the end of it's useful life and warrant replacement. A battery arrives at the end of it's useful life when it reaches only 80% or below it's initial design capacity. These readings provide indication that the battery string has not yet reached the end of it's useful lif The data does suggest however, that this string may need to be replaced in the next 15 months if all stays constant. We stro string be replaced. Also we recommend contacting Liebert and requesting their assistance with an equaliz hours.

End of C&D Dynasty Report