

Electrical lab Test Report

Voltage vs. SOC %

Date: 24.09.2016

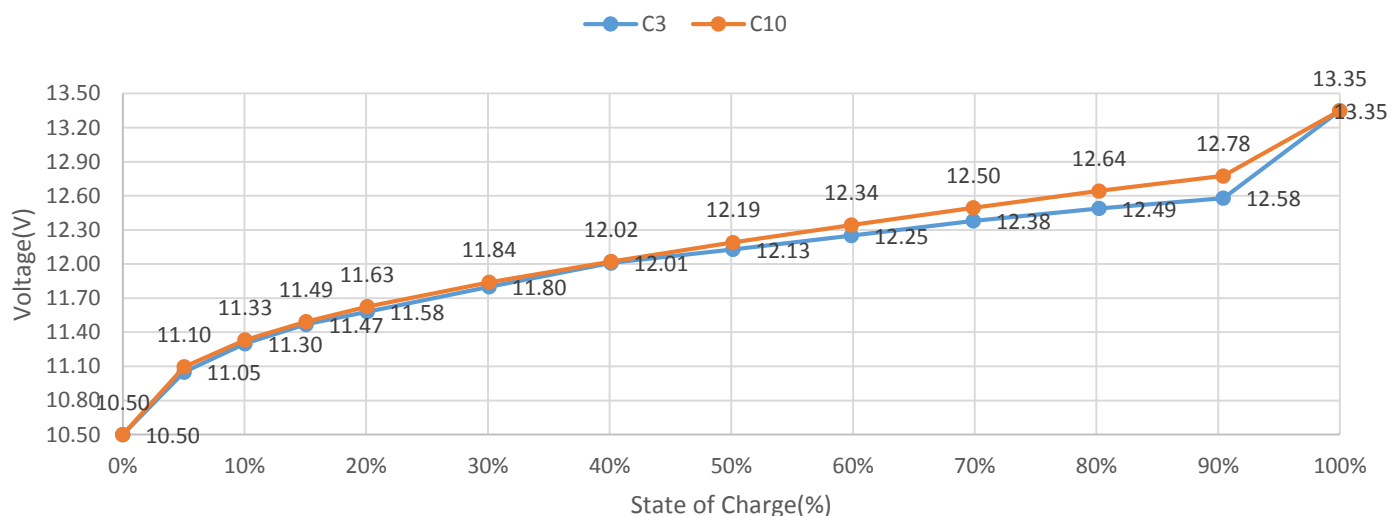
Date:	24.09.16
Type	Microcell™ Carbon Foam AGM VRLA gel Battery
Model	MCF G31
Battery serial No	H-649 ,719
Rating	12V 110 Ah @ C10 at 27°C
Description	Endurance Life cycle test(75% DOD)
Tested During	September 2016
No of pages	02
Manufacturing date	Aug'2016
Reference No	ETL 16/2016-TR 719& 649

Test procedure:

- Fully charge the battery with 55 A until the charging current goes down to 1A.
- Carry out C₃ Discharge with a discharge current of 30A until 10.5 V and note down the voltage.
- Similarly. Carry out a C₁₀ Discharge with a discharge current of 11A until 10.5 V and note down the voltage.
- Compare the SOC % vs. Voltage.

Test Results:

Voltage Vs SOC%



SOC	Voltage/Battery	
	C ₃	C ₁₀
100%	13.35	13.35
90%	12.58	12.78
80%	12.49	12.64
70%	12.38	12.50
60%	12.25	12.34
50%	12.13	12.19
40%	12.01	12.02
30%	11.80	11.84
20%	11.58	11.63
15%	11.47	11.49
10%	11.30	11.33
5%	11.05	11.10
0%	10.50	10.50

Tested By	Verified By	Approved by
Vishal Tholiya EL Technician	Rakesh Prajapathi (Head-QC)	Balaji Balasundaram (Head-Design)