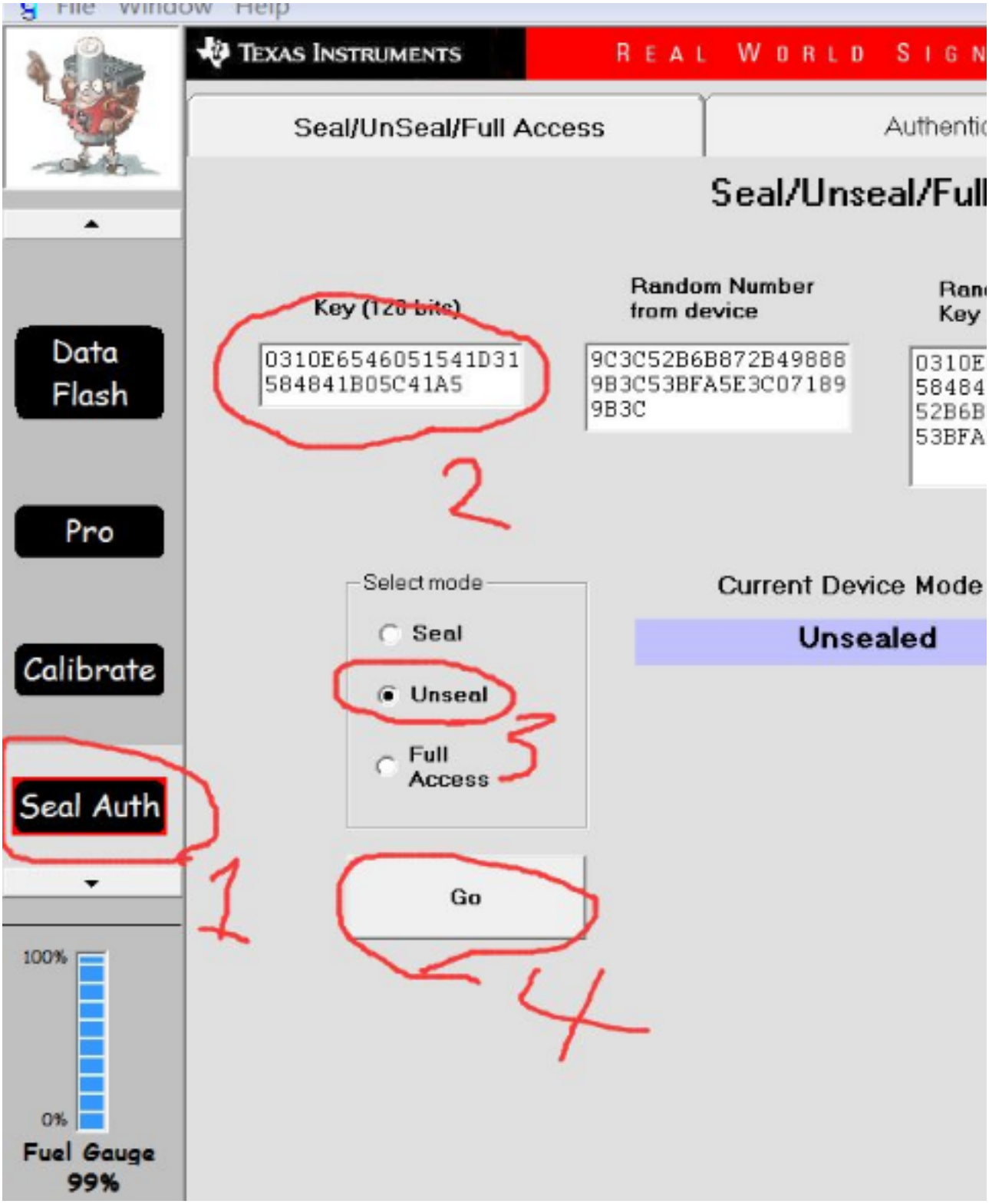
精灵3密码，在Key（128bits）下输入

0310E6546051541D31584841B05C41A5



AL PROCESSING™

cation | Change Key

l Access

All displayed data is most significant digit first.

dom Number +

6546051541D31
1B05C41A59C3C
872B498889B3C
5E3C071899B3C

Digest

F01EF8D7E0EE9F3397
02004BE075C3928181
4B2E

Power | Advanced Charge Algorithm

Permanent Fail* | PF Status

Gas Gauging | Ra Table | S

Name	Value	Unit
Data	-	-
Remaining AH Cap. Alarm	440	mAh
Remaining WH Cap. Alarm	680	cWh
Remaining Time Alarm	10	min
Initial Battery Mode	0081	-
Design Voltage	15200	mV
Specification Information	0031	-
Manufacture Date	26-Sep-2015	date
Serial Number	027F	-
Cycle Count	1	-
Cycle Count Percentage	75	%
Max Error Limit	100	%
Design Capacity mAh	4480	mAh
Design Capacity cWh	6809	cWh

Name	V
Manufacturer Name	M
Device Name	DJ
Device Chemistry	L
FD	
Set Voltage Threshold	3
Clear Voltage Threshold	3
Set % RSOC Threshold	
Clear % RSOC Threshold	
FC	
Set Voltage Threshold	4
Clear Voltage Threshold	4
Set % RSOC Threshold	
Clear % RSOC Threshold	

Permanent Fail | PF Status

Gas Gauging | Ra Table | Sy

Name	Value	Unit
State	-	-
Qmax Cell 0	4700	mAh
Qmax Cell 1	4700	mAh
Qmax Cell 2	4700	mAh
Qmax Cell 3	4700	mAh
Qmax Pack	4700	mAh
Update Status	0E	-
Cell 0 Chg Voltage at EoC	4340	mV
Cell 1 Chg Voltage at EoC	4340	mV
Cell 2 Chg Voltage at EoC	4340	mV
Cell 3 Chg Voltage at EoC	4340	mV
Current at EoC	248	mA
Avg I Last Run	-4199	mA

Name	V
Avg P Last Run	-6
Delta Voltage	8
Max Avg I Last Run	-1
Max Avg P Last Run	-1
IT Cfg	
Load Select	
Load Mode	
Ra Filter	8
Ra Max Delta	
Design Resistance	
Reference Grid	
Resistance Parameter Filter	65

Permanent Fail | PF Status

Gas Gauging | Ra Table | Sy

Calibration

Black Box | Lifetimes | Setti

ystem Data | **SBS Configuration** | Protecti

Value	Unit
NVT	-
TI005	-
ION	-
	-
000	mV
100	mV
0	%
5	%
-	-
350	mV
100	mV
100	%
95	%

Name	Value	Unit
TDA	-	-
Set Voltage Threshold	3200	mV
Clear Voltage Threshold	3300	mV
Set % RSOC Threshold	10	%
Clear % RSOC Treshold	15	%
TCA	-	-
Set Voltage Threshold	4350	mV
Clear Voltage Threshold	4100	mV
Set % RSOC Threshold	100	%
Clear % RSOC Threshold	95	%
Max Error	-	-
Time Cycle Equivalent	24	h
Cycle Delta	0.05	%

Black Box | Lifetimes | Set

ystem Data | SBS Configuration | Protec

Value	Unit
024	cW
349	mV
1376	mA
6334	cW
-	-
1	-
1	-
0.0	%
15	%
19	mOhms
4	-
5142	-

Name	Value	Unit
Term Voltage	11200	mV
Term Voltage Delta	400	mV
User Rate-mA	0	mA
User Rate-cW	0	cW
Reserve Cap-mAh	0	mAh
Reserve Cap-cWh	0	cWh
Remcap Smoothing Filter	250	-
Fast Scale Start SOC	10	%
Current Thresholds	-	-
Dsg Current Threshold	50	mA
Chg Current Threshold	50	mA
Quit Current	20	mA

Black Box | Lifetimes | Sett

ystem Data | SBS Configuration | Protect

Name	Value	Unit
Manufacturer Data	-	-
ManufacturerInfo	DJI0617	-

Name
Integrity

Gas Gauging | Ra Table

Power | Advanced Charge Algorithm

Name	Value	Unit
Voltage		-
Cell Scale 0	20602	-
Cell Scale 1	20666	-
Cell Scale 2	20651	-
Cell Scale 3	20664	-
Pack Gain	51992	-
BAT Gain	49426	-
Current	-	-
CC Gain	6.245	-
Capacity Gain	1862545.5	-
Current Offset	-	-
CC Offset	-7232	-
Coulomb Counter Offset San	64	-
Board Offset	0	-
Temperature	-	-
Internal Temp Offset	0.0	degC
External1 Temp Offset	0.0	degC
External2 Temp Offset	-3.0	degC
Internal Temp Model	-	-
Int Coeff 1	0	-
Int Coeff 2	0	-
Int Coeff 3	-11136	-

Name
Int Coeff 4
Int Minimum AD
Int Maximum Temp
Cell Temperature Model
Coeff a1
Coeff a2
Coeff a3
Coeff a4
Coeff a5
Coeff b1
Coeff b2
Coeff b3
Coeff b4
Rc0
Adc0
Rpad
Rint
Fet Temperature Model
Coeff a1
Coeff a2
Coeff a3
Coeff a4

Power | Advanced Charge Algorithm

Permanent Fail | PF Status

Name	Value	Unit
Fuse	-	-
PF Fuse 0-15	0000	-
PF Fuse 16-31	0000	-

Name
Enabled Protections 16-31
Permanent Failure
Enabled PF 0-15

Value	Unit
-	-

Name	Value	Unit
Data Flash Checksum	0000	-

Black Box | Lifetimes

System Data | SBS Configuration | Pr

Calibration

Value	Unit
5754	-
0	-
5754	0.1degK
-	-
14520	-
23696	-
20298	-
28073	-
865	-
-694	-
1326	-
-3880	-
5127	-
11703	-
11703	-
0	-
0	-
-	-
14520	-
23696	-
20298	-
28073	-

Name	Value	Unit
Coeff a5	865	-
Coeff b1	-694	-
Coeff b2	1326	-
Coeff b3	-3880	-
Coeff b4	5127	-
Rc0	11703	-
Adc0	11703	-
Rpad	0	-
Rint	0	-
Filter	-	-
Cell Voltage 1	145	-
Cell Voltage 2	145	-
Cell Voltage 3	145	-
Cell Voltage 4	145	-
Pack Voltage Out	10	-
Direct Battery Voltage	10	-
Summed Battery Voltage	145	-
Cell Temperature	145	-
FET Temperature	145	-
Current Deadband	-	-
Deadband	8	mA
Coulomb Counter Deadband	34	290nV

Calibration

Black Box | Lifetimes | **Settings**

Value	Unit
0000	-
-	-
0001	-
0000	

Name	Value	Unit
System Configuration	00F3	-
Gauging Configuration	12DE	-
Sbs Configuration	20	-
Sbs Data Config 0-15	0C88	

Min Blow Fuse Voltage	12000	mV
Manufacturing	-	-
Manufacturing Status	00B8	-
Protection	-	-
Enabled Protections 0-15	1FC7	-

Enabled PF 16-31	
Configuration	
Protection Configuration	
Temperature Configuration	
Charging Configuration	

Permanent Fail | PF Status

Name	Value	Unit
Voltage	-	-
Max Cell Voltage 0	4180	mV
Max Cell Voltage 1	4180	mV
Max Cell Voltage 2	4180	mV
Max Cell Voltage 3	4180	mV
Min Cell Voltage 0	4180	mV
Min Cell Voltage 1	4180	mV
Min Cell Voltage 2	4180	mV
Min Cell Voltage 3	4180	mV
Max Delta Cell Voltage	0	mV
Current	-	-
Max Charge Current	0	mA
Max Discharge Current	0	mA
Max Avg Dsg Current	0	mA
Max Avg Dsg Power	0	W
Safety Events	-	-
No Of Cov Events	0	events
Last Cov Event	0	cycles
No Of Cuv Events	0	events
Last Cuv Event	0	cycles
No Of Ocd1 Events	0	events
Last Ocd1 Event	0	cycles
No Of Ocd2 Events	0	events
Last Ocd2 Event	0	cycles
No Of Occ1 Events	0	events

Name	V
Last Occ1 Event	
No Of Occ2 Events	
Last Occ2 Event	
No Of Old Events	
Last Old Event	
No Of Scd Events	
Last Scd Event	
No Of Scc Events	
Last Scc Event	
No Of Otc Events	
Last Otc Event	
No Of Otd Events	
Last Otd Event	
No Of Otf Events	
Last Otf Event	
Charging Events	
No Valid Charge Term	
Last Valid Charge Term	
Gauging Events	
No Of Qmax Updates	
Last Qmax Update	
No Of Ra Updates	
Last Ra Update	
No Of Ra Disable	

Gas Gauging | **Ra Table**

Name	Value	Unit
R_a0	-	-
Cell0 R_a flag	0000	-
Cell0 R_a 0	46	!^-10oh
Cell0 R_a 1	46	!^-10oh
Cell0 R_a 2	48	!^-10oh
Cell0 R_a 3	48	!^-10oh

Name	
Cell2 R_a 10	
Cell2 R_a 11	
Cell2 R_a 12	
Cell2 R_a 13	
Cell2 R_a 14	
R_a3	

0000	-	Sbs Data Config. 0-15	0C88	-
-	-	Sbs Data Config. 16-23	8D	-
00	-	**AFE**	-	-
0004	-	AFE State Control	00	-
1A	-			

Black Box | **Lifetimes** | Se

Value	Unit	Name	Value	Unit
0	cycles	Last Ra Disable	0	cycles
0	events	**Power Events**	-	-
0	cycles	No Of Shutdowns	0	events
0	events	**Cell Balancing**	-	-
0	cycles	Cb Time Cell 0	0	h
0	events	Cb Time Cell 1	0	h
0	cycles	Cb Time Cell 2	0	h
0	events	Cb Time Cell 3	0	h
0	cycles	**Temperature**	-	-
0	events	Max Temp Cell	28	degC
0	cycles	Min Temp Cell	28	degC
0	events	Max Delta Cell Temp	0	degC
0	cycles	Max Temp Int Sensor	23	degC
0	events	Min Temp Int Sensor	23	degC
0	cycles	Max Temp Fet	0	degC
-	-	**Time**	-	-
0	events	Total Fw Runtime	0	h
0	cycles	Time Spent In UT	0	h
-	-	Time Spent In LT	0	h
0	events	Time Spent In STL	0	h
0	cycles	Time Spent In RT	0	h
0	events	Time Spent In STH	0	h
0	cycles	Time Spent In HT	0	h
0	events	Time Spent In OT	0	h

System Data | SBS Configuration | Pro

Value	Unit	Name	Value	Unit
68	!^-10oh	xCell1 R_a 4	42	!^-10oh
68	!^-10oh	xCell1 R_a 5	54	!^-10oh
247	!^-10oh	xCell1 R_a 6	70	!^-10oh
706	!^-10oh	xCell1 R_a 7	69	!^-10oh
725	!^-10oh	xCell1 R_a 8	97	!^-10oh
-	-	xCell1 R_a 9	97	!^-10oh

Cell0 R_a 4	26	!^-10oh	Cell3 R_a flag	
Cell0 R_a 5	37	!^-10oh	Cell3 R_a 0	
Cell0 R_a 6	41	!^-10oh	Cell3 R_a 1	
Cell0 R_a 7	42	!^-10oh	Cell3 R_a 2	
Cell0 R_a 8	55	!^-10oh	Cell3 R_a 3	
Cell0 R_a 9	55	!^-10oh	Cell3 R_a 4	
Cell0 R_a 10	70	!^-10oh	Cell3 R_a 5	
Cell0 R_a 11	70	!^-10oh	Cell3 R_a 6	
Cell0 R_a 12	237	!^-10oh	Cell3 R_a 7	
Cell0 R_a 13	678	!^-10oh	Cell3 R_a 8	
Cell0 R_a 14	707	!^-10oh	Cell3 R_a 9	
R_a1	-	-	Cell3 R_a 10	
Cell1 R_a flag	0000	-	Cell3 R_a 11	
Cell1 R_a 0	56	!^-10oh	Cell3 R_a 12	
Cell1 R_a 1	56	!^-10oh	Cell3 R_a 13	
Cell1 R_a 2	66	!^-10oh	Cell3 R_a 14	
Cell1 R_a 3	53	!^-10oh	**R_a0x**	
Cell1 R_a 4	41	!^-10oh	xCell0 R_a flag	
Cell1 R_a 5	52	!^-10oh	xCell0 R_a 0	

Name	Value	Unit	Name	
Cell1 R_a 2	66	!^-10oh	Cell3 R_a 13	
Cell1 R_a 3	53	!^-10oh	Cell3 R_a 14	
Cell1 R_a 4	41	!^-10oh	**R_a0x**	
Cell1 R_a 5	52	!^-10oh	xCell0 R_a flag	0
Cell1 R_a 6	68	!^-10oh	xCell0 R_a 0	
Cell1 R_a 7	67	!^-10oh	xCell0 R_a 1	
Cell1 R_a 8	94	!^-10oh	xCell0 R_a 2	
Cell1 R_a 9	94	!^-10oh	xCell0 R_a 3	
Cell1 R_a 10	141	!^-10oh	xCell0 R_a 4	
Cell1 R_a 11	122	!^-10oh	xCell0 R_a 5	
Cell1 R_a 12	422	!^-10oh	xCell0 R_a 6	
Cell1 R_a 13	1245	!^-10oh	xCell0 R_a 7	
Cell1 R_a 14	1259	!^-10oh	xCell0 R_a 8	
R_a2	-	-	xCell0 R_a 9	
Cell2 R_a flag	0000	-	xCell0 R_a 10	
Cell2 R_a 0	45	!^-10oh	xCell0 R_a 11	
Cell2 R_a 1	48	!^-10oh	xCell0 R_a 12	
Cell2 R_a 2	53	!^-10oh	xCell0 R_a 13	
Cell2 R_a 3	38	!^-10oh	xCell0 R_a 14	
Cell2 R_a 4	27	!^-10oh	**R_a1x**	
Cell2 R_a 5	45	!^-10oh	xCell1 R_a flag	0
Cell2 R_a 6	48	!^-10oh	xCell1 R_a 0	

0000	-	xCell1 R_a 10	145	!^-10oh
47	!^-10oh	xCell1 R_a 11	126	!^-10oh
47	!^-10oh	xCell1 R_a 12	435	!^-10oh
51	!^-10oh	xCell1 R_a 13	1283	!^-10oh
44	!^-10oh	xCell1 R_a 14	1297	!^-10oh
28	!^-10oh	**R_a2x**	-	-
46	!^-10oh	xCell2 R_a flag	0055	-
49	!^-10oh	xCell2 R_a 0	47	!^-10oh
57	!^-10oh	xCell2 R_a 1	50	!^-10oh
60	!^-10oh	xCell2 R_a 2	55	!^-10oh
60	!^-10oh	xCell2 R_a 3	39	!^-10oh
74	!^-10oh	xCell2 R_a 4	28	!^-10oh
74	!^-10oh	xCell2 R_a 5	47	!^-10oh
264	!^-10oh	xCell2 R_a 6	50	!^-10oh
768	!^-10oh	xCell2 R_a 7	57	!^-10oh
768	!^-10oh	xCell2 R_a 8	71	!^-10oh
-	-	xCell2 R_a 9	71	!^-10oh
0055	-	xCell2 R_a 10	71	!^-10oh
47	!^-10oh	xCell2 R_a 11	71	!^-10oh

Value	Unit	Name	Value	Unit
768	!^-10oh	xCell2 R_a 7	57	!^-10oh
768	!^-10oh	xCell2 R_a 8	71	!^-10oh
-	-	xCell2 R_a 9	71	!^-10oh
0055	-	xCell2 R_a 10	71	!^-10oh
47	!^-10oh	xCell2 R_a 11	71	!^-10oh
47	!^-10oh	xCell2 R_a 12	256	!^-10oh
49	!^-10oh	xCell2 R_a 13	733	!^-10oh
49	!^-10oh	xCell2 R_a 14	752	!^-10oh
27	!^-10oh	**R_a3x**	-	-
38	!^-10oh	xCell3 R_a flag	0055	-
42	!^-10oh	xCell3 R_a 0	48	!^-10oh
43	!^-10oh	xCell3 R_a 1	48	!^-10oh
56	!^-10oh	xCell3 R_a 2	52	!^-10oh
56	!^-10oh	xCell3 R_a 3	45	!^-10oh
71	!^-10oh	xCell3 R_a 4	29	!^-10oh
71	!^-10oh	xCell3 R_a 5	47	!^-10oh
242	!^-10oh	xCell3 R_a 6	50	!^-10oh
692	!^-10oh	xCell3 R_a 7	58	!^-10oh
722	!^-10oh	xCell3 R_a 8	61	!^-10oh
-	-	xCell3 R_a 9	61	!^-10oh
0055	-	xCell3 R_a 10	75	!^-10oh
58	!^-10oh	xCell3 R_a 11	75	!^-10oh

Cell2 R_a 7	55	!^-10oh	xCell1 R_a 1	
Cell2 R_a 8	68	!^-10oh	xCell1 R_a 2	
Cell2 R_a 9	68	!^-10oh	xCell1 R_a 3	

Pro

Calibrate

Seal Auth

100%

0%

Fuel Gauge

85%

Voltages	Value	Units	Log
Cell Voltage 1	4157	mV	✓
Cell Voltage 2	4158	mV	✓
Cell Voltage 3	4160	mV	✓
Cell Voltage 4	4163	mV	✓
Battery Voltage	16642	mV	✓
Pack Voltage	112	mV	✓

Bit 15 Log ✓

LFP_RLX	TCA	TD
NSFM	FC	FD

Bit 15 Log ✓

CAL	RSVD	RSV
BBR	PF	LF

Bit 23 Log ✓

RSVD	RSVD	RSV
CCC	CVR	CC
PV	OT	HT

Version: 1.0.3
bq30z55ExtSBS

Bit 31

RSVD	RSVD	RSVD	XL	SLPCC	LPQMAX
SLEEP	XCHG	XDSG	PF	SS	CAL

Scan Off | Device: bq30z55 R3, FW version: V0_36_BLD0052

58	!^-10oh	xCell3 R_a 12	269	!^-10oh
68	!^-10oh	xCell3 R_a 13	783	!^-10oh
55	!^-10oh	xCell3 R_a 14	783	!^-10oh

Gauging Status (Hex) 0812

A	OCVFR	LDMD	RX	QMAX	VDQ	
	QEN	VOK	RU	DSG	REST	Bit 0

Manufacturing Status 00B8

VD	RSVD	RSVD	RSVD	RSVD	FUSE	
	FET	GAUGE	DSG	CHG	PCHG	Bit 0

Charging Status (Hex) 000408

VD	RSVD	RSVD	MCHG	RSVD	VCT	
R	SU	IN	HV	MV	LV	
T	STH	RT	STL	LT	UT	Bit 0

Temperature	Value	Units	Log
Internal Temp	22.6	degC	✓
TS1 Temp	-58.5	degC	✓
TS2 Temp	28.2	degC	✓
Cell Temp	28.2	degC	✓
FET Temp	-273.2	degC	✓

Log ✓ Operation Status (Hex) 00106300 Bit 16

SMBLCAL	INIT	SLEEPM	SDV	CAL0	FVS	AWD	AUTH	RSVD	SDM	
SEC1	SEC0	LED	CB	FUSE	GPOD	PCHG	CHG	DSG	PRES	Bit 0