

Auto Refresh is ON - Click to Turn OFF

bqStudio Version: 1.3.86



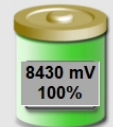
EV2400
Version:0.32



SMB



bq4050
9e34_0_01
Addr: 0x17
27.9 degC



8430 mV
100%



Read/Write Data Memory Contents

- Calibration
- Settings
- Protections
- Permanent Fail
- Advanced Charge Algorithm
- Gas Gauging
- Power
- PF Status
- System Data
- SBS Configuration
- LED Support**
- Black Box
- Lifetimes

Name	Value	Unit
LED Config		
LED Flash Period	512	488us
LED Blink Period	1024	488us
LED Delay	100	488us
LED Hold Time	4	s
CHG Flash Alarm	10	%
CHG Thresh 1	0	%
CHG Thresh 2	20	%
CHG Thresh 3	40	%
CHG Thresh 4	60	%
CHG Thresh 5	80	%
DSG Flash Alarm	10	%
DSG Thresh 1	0	%
DSG Thresh 2	20	%
DSG Thresh 3	40	%
DSG Thresh 4	60	%
DSG Thresh 5	80	%

- DEVICE_NUMBER
- HW_VERSION
- FW_VERSION
- FW_BUILD
- SHUTDOWN
- CC_OFFSET
- PCHG_FET_TOGGLE
- CHG_FET_TOGGLE
- DSG_FET_TOGGLE
- FET_EN
- LIFETIME_EN
- LT_RESET
- LT_FLUSH
- LT_TEST
- PF_EN
- PF_CLEAR
- BBR_EN
- BBR_CLEAR


Log Panel Clear Log

Transaction Log


Name	Cmd	Result	Rea...
CHG...	0x1F	N/A	N/A
DSG...	0x20	N/A	N/A
DSG...	0x20	N/A	N/A
CHG...	0x1F	N/A	N/A
DSG...	0x20	N/A	N/A
CHG...	0x1F	N/A	N/A

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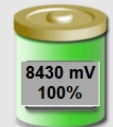
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Name	Value	Unit
▼ Safety Status		
1st Status Status A	00	hex
1st Status Status B	00	hex
1st Safety Status C	00	hex
1st Safety Status D	00	hex
1st Time to Next Event	0	s
2nd Status Status A	00	hex
2nd Status Status B	00	hex
2nd Safety Status C	00	hex
2nd Safety Status D	00	hex
2nd Time to Next Event	0	s
3rd Status Status A	00	hex
3rd Status Status B	00	hex
3rd Safety Status C	00	hex
3rd Safety Status D	00	hex
3rd Time to Next Event	0	s
▼ PF Status		
1st PF Status A	00	hex
1st PF Status B	00	hex
1st PF Status C	00	hex
1st PF Status D	00	hex
1st Time to Next Event	0	s
2nd PF Status A	00	hex
2nd PF Status B	00	hex
2nd PF Status C	00	hex
2nd PF Status D	00	hex
2nd Time to Next Event	0	s
3rd PF Status A	00	hex
3rd PF Status B	00	hex
3rd PF Status C	00	hex
3rd PF Status D	00	hex
3rd Time to Next Event	0	s

Filter/Search

Auto Export Export Import Write_All Read All

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DSG_...	0x20	N/A	N/A
CHG...	0x1F	N/A	N/A
DSG_...	0x20	N/A	N/A
CHG...	0x1F	N/A	N/A

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Name	Value	Unit
Voltage		
Cell 1 Max Voltage	4364	mV
Cell 2 Max Voltage	4380	mV
Cell 3 Max Voltage	1	mV
Cell 4 Max Voltage	0	mV
Cell 1 Min Voltage	2856	mV
Cell 2 Min Voltage	3099	mV
Cell 3 Min Voltage	0	mV
Cell 4 Min Voltage	32767	mV
Max Delta Cell Voltage	4231	mV
Current		
Max Charge Current	3216	mA
Max Discharge Current	-4409	mA
Max Avg Dsg Current	-4334	mA
Max Avg Dsg Power	-3108	cW
Temperature		
Max Temp Cell	39	°C
Min Temp Cell	26	°C
Max Delta Cell Temp	0	°C
Max Temp Int Sensor	44	°C
Min Temp Int Sensor	27	°C
Max Temp Fet	-52	°C
Safety Events		
No Of COV Events	0	events
Last COV Event	0	cycles
No Of CUV Events	4	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

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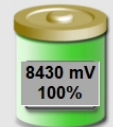
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Name	Value	Unit
> Voltage		
> Current		
> Temperature		
> Safety Events		
> Charging Events		
> Power Events		
> Cell Balancing		
Cb Time Cell 1	0	h
Cb Time Cell 2	0	h
Cb Time Cell 3	0	h
Cb Time Cell 4	0	h
> Time		
Total Fw Runtime	160	h
Time Spent In UT	0	h
Time Spent In LT	0	h
Time Spent In STL	0	h
Time Spent In RT	0	h
Time Spent In STH	148	h
Time Spent In HT	4	h
Time Spent In OT	0	h

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CHG...	0x1F	N/A	N/A
DSG_...	0x20	N/A	N/A
CHG...	0x1F	N/A	N/A

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Name	Value	Unit
Protection		
Protection Configuration	03	hex
Enabled Protections A	d7	hex
Enabled Protections B	3f	hex
Enabled Protections C	00	hex
Enabled Protections D	0c	hex
Permanent Failure		
Enabled PF A	00	hex
Enabled PF B	00	hex
Enabled PF C	00	hex
Enabled PF D	00	hex
Configuration		
Charging Configuration	00	hex
Temperature Enable	02	hex
Temperature Mode	04	hex
DA Configuration	1d	hex
FET Options	7c	hex
Sbs Gauging Configuration	04	hex
Sbs Configuration	20	hex
Power Config	00	hex
IO Config	00	hex
LED Configuration	0044	hex
SOC Flag Config A	0c8c	hex
SOC Flag Config B	9c	hex
Balancing Configuration	01	hex
CEDV Gauging Configuration	0200	hex
CEDV Smoothing Config	08	hex
AFE		
AFE Protection Control	71	hex
ZVCHG Exit Threshold	2200	mV
Fuse		
PF Fuse A	00	hex
PF Fuse B	00	hex

Filter/Search

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- CHG_FET_TOGGLE
- DSG_FET_TOGGLE
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Log Panel Clear Log






Transaction Log

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CHG...	0x1F	N/A	N/A
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- PF Status
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- Lifetimes

Name	Value	Unit
Temperature Enable	02	hex
Temperature Mode	04	hex
DA Configuration	1d	hex
FET Options	7c	hex
Sbs Gauging Configuration	04	hex
Sbs Configuration	20	hex
Power Config	00	hex
IO Config	00	hex
LED Configuration	0044	hex
SOC Flag Config A	0c8c	hex
SOC Flag Config B	9c	hex
Balancing Configuration	01	hex
CEDV Gauging Configuration	0200	hex
CEDV Smoothing Config	08	hex
AFE		
AFE Protection Control	71	hex
ZVCHG Exit Threshold	2200	mV
Fuse		
PF Fuse A	00	hex
PF Fuse B	00	hex
PF Fuse C	00	hex
PF Fuse D	00	hex
Min Blow Fuse Voltage	3500	mV
Fuse Blow Timeout	30	s
BTP		
Init Discharge Set	150	mAh
Init Charge Set	175	mAh
SMBus		
Address	16	-
Address Check	ea	-
Manufacturing		
Mfg Status init	0260	hex

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- Lifetimes

Name	Value	Unit
<ul style="list-style-type: none"> <ul style="list-style-type: none"> Threshold Delay Recovery 	<ul style="list-style-type: none"> 3000 2 3200 	<ul style="list-style-type: none"> mV s mV
<ul style="list-style-type: none"> <ul style="list-style-type: none"> Threshold Low Temp Threshold Standard Temp Threshold High Temp Threshold Rec Temp Delay Recovery Low Temp Recovery Standard Temp Recovery High Temp Recovery Rec Temp 	<ul style="list-style-type: none"> 4350 4350 4350 4350 2 4250 4250 4250 4250 	<ul style="list-style-type: none"> mV mV mV mV s mV mV mV mV
<ul style="list-style-type: none"> <ul style="list-style-type: none"> Threshold Delay 	<ul style="list-style-type: none"> 6000 3 	<ul style="list-style-type: none"> mA s
<ul style="list-style-type: none"> <ul style="list-style-type: none"> Threshold Delay 	<ul style="list-style-type: none"> 8000 3 	<ul style="list-style-type: none"> mA s
<ul style="list-style-type: none"> <ul style="list-style-type: none"> Recovery Threshold Recovery Delay 	<ul style="list-style-type: none"> -200 5 	<ul style="list-style-type: none"> mA s
<ul style="list-style-type: none"> <ul style="list-style-type: none"> Threshold Delay 	<ul style="list-style-type: none"> -15000 5 	<ul style="list-style-type: none"> mA s
<ul style="list-style-type: none"> <ul style="list-style-type: none"> Threshold Delay 	<ul style="list-style-type: none"> -10000 5 	<ul style="list-style-type: none"> mA s
<ul style="list-style-type: none"> <ul style="list-style-type: none"> Recovery Threshold Recovery Delay 	<ul style="list-style-type: none"> 200 2 	<ul style="list-style-type: none"> mA s
<ul style="list-style-type: none"> <ul style="list-style-type: none"> Recovery Threshold Recovery Delay 	<ul style="list-style-type: none"> 200 2 	<ul style="list-style-type: none"> mA s

Filter/Search

Auto Export Export Import Write_All Read All

Commands

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- DSG_FET_TOGGLE
- FET_EN
- LIFETIME_EN
- LT_RESET
- LT_FLUSH
- LT_TEST
- PF_EN
- PF_CLEAR
- BBR_EN
- BBR_CLEAR

Log Panel Clear Log






Transaction Log

Name	Cmd	Result	Rea...
RESET	0x41	N/A	N/A
CHG...	0x1F	N/A	N/A
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Name	Value	Unit
Recovery Threshold	200	mA
Recovery Delay	2	s
▼ AOLD		
Latch Limit	0	-
Counter Dec Delay	10	s
Recovery	5	s
Reset	15	s
Threshold	f8	hex
▼ ASCC		
Latch Limit	0	-
Counter Dec Delay	10	s
Recovery	5	s
Reset	15	s
Threshold	f7	hex
▼ ASCD		
Latch Limit	0	-
Counter Dec Delay	10	s
Recovery	5	s
Reset	15	s
Threshold 1	ff	hex
Threshold 2	ff	hex
▼ OTC		
Threshold	65.0	1°C
Delay	2	s
Recovery	50.0	1°C
▼ OTD		
Threshold	80.0	1°C
Delay	2	s
Recovery	55.0	1°C
▼ OTF		
Threshold	80.0	1°C
Delay	2	s
Recovery	65.0	1°C

Filter/Search

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- FET_EN
- LIFETIME_EN
- LT_RESET
- LT_FLUSH
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- PF_EN
- PF_CLEAR
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Log Panel Clear Log






Transaction Log

Name	Cmd	Result	Rea...
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CHG...	0x1F	N/A	N/A
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Dashboard

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Data Memory

Filter/Search

Auto Export Export Import Write_All Read All

Read/Write Data Memory Contents

Calibration	Name	Value	Unit
Settings	Delay	2	s
Protections	Recovery	55.0	1°C
Permanent Fail	OTF		
Advanced Charge Algorithm	Threshold	80.0	1°C
Gas Gauging	Delay	2	s
Power	Recovery	65.0	1°C
PF Status	UTC		
System Data	Threshold	0	1°C
SBS Configuration	Delay	2	s
LED Support	Recovery	5.0	1°C
Black Box	UTD		
Lifetimes	Threshold	-25.0	1°C
	Delay	2	s
	Recovery	-10.0	1°C
	HWD		
	Delay	10	s
	PTO		
	Charge Threshold	2000	mA
	Suspend Threshold	1800	mA
	Delay	1800	s
	Reset	2	mAh
	CTO		
	Charge Threshold	2500	mA
	Suspend Threshold	2000	mA
	Delay	54000	s
	Reset	2	mAh
	OC		
	Threshold	300	mAh
	Recovery	2	mAh
	RSOC Recovery	90	%
	CHGV		
	Threshold	500	mV
	Delav	30	s

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- CHG_FET_TOGGLE
- DSG_FET_TOGGLE
- FET_EN
- LIFETIME_EN
- LT_RESET
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Log Panel

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Name	Value	Unit
Delay	2	s
Recovery	-10.0	1°C
▼ HWD		
Delay	10	s
▼ PTO		
Charge Threshold	2000	mA
Suspend Threshold	1800	mA
Delay	1800	s
Reset	2	mAh
▼ CTO		
Charge Threshold	2500	mA
Suspend Threshold	2000	mA
Delay	54000	s
Reset	2	mAh
▼ OC		
Threshold	300	mAh
Recovery	2	mAh
RSOC Recovery	90	%
▼ CHGV		
Threshold	500	mV
Delay	30	s
Recovery	-500	mV
▼ CHGC		
Threshold	500	mA
Delay	2	s
Recovery Threshold	100	mA
Recovery Delay	2	s
▼ PCHGC		
Threshold	50	mA
Delay	2	s
Recovery Threshold	10	mA
Recovery Delay	2	s



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Name	Value	Unit
<ul style="list-style-type: none"> <ul style="list-style-type: none"> SUV Threshold 2200 mV Delay 2 s <ul style="list-style-type: none"> SOV Threshold 4500 mV Delay 5 s <ul style="list-style-type: none"> SOCC Threshold 10000 mA Delay 5 s <ul style="list-style-type: none"> SOCD Threshold -10000 mA Delay 5 s <ul style="list-style-type: none"> SOT Threshold 65.0 1°C Delay 5 s <ul style="list-style-type: none"> SOTF Threshold 100.0 1°C Delay 5 s <ul style="list-style-type: none"> Open Thermistor Threshold -50.0 1°C Delay 5 s Fet Delta 20.0 1°C Cell Delta 20.0 1°C <ul style="list-style-type: none"> VIMR Check Voltage 3500 mV Check Current 10 mA Delta Threshold 500 mV Delta Delay 5 s Duration 100 s <ul style="list-style-type: none"> VIMA Check Voltage 3700 mV Check Current 50 mA Delta Threshold 200 mV 		

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Name	Value	Unit
<ul style="list-style-type: none"> <ul style="list-style-type: none"> Check Voltage Check Current Delta Threshold Delta Delay Duration 	<ul style="list-style-type: none"> 3500 10 500 5 100 	<ul style="list-style-type: none"> mV mA mV s s
<ul style="list-style-type: none"> <ul style="list-style-type: none"> Check Voltage Check Current Delta Threshold Delay 	<ul style="list-style-type: none"> 3700 50 200 2 	<ul style="list-style-type: none"> mV mA mV s
<ul style="list-style-type: none"> <ul style="list-style-type: none"> OFF Threshold OFF Delay 	<ul style="list-style-type: none"> 5 5 	<ul style="list-style-type: none"> mA s
<ul style="list-style-type: none"> <ul style="list-style-type: none"> OFF Threshold OFF Delay 	<ul style="list-style-type: none"> -5 5 	<ul style="list-style-type: none"> mA s
<ul style="list-style-type: none"> <ul style="list-style-type: none"> Threshold Delay 	<ul style="list-style-type: none"> 5 5 	<ul style="list-style-type: none"> mA s
<ul style="list-style-type: none"> <ul style="list-style-type: none"> Threshold Delay Period Compare Period 	<ul style="list-style-type: none"> 100 2 5 	<ul style="list-style-type: none"> - s s
<ul style="list-style-type: none"> <ul style="list-style-type: none"> Threshold Delay Period 	<ul style="list-style-type: none"> 100 5 	<ul style="list-style-type: none"> - s
<ul style="list-style-type: none"> <ul style="list-style-type: none"> Delay 	<ul style="list-style-type: none"> 5 	<ul style="list-style-type: none"> s
<ul style="list-style-type: none"> <ul style="list-style-type: none"> Threshold Delay 	<ul style="list-style-type: none"> 5000 5 	<ul style="list-style-type: none"> mV s

Commands

- DEVICE_NUMBER
- HW_VERSION
- FW_VERSION
- FW_BUILD
- SHUTDOWN
- CC_OFFSET
- PCHG_FET_TOGGLE
- CHG_FET_TOGGLE
- DSG_FET_TOGGLE
- FET_EN
- LIFETIME_EN
- LT_RESET
- LT_FLUSH
- LT_TEST
- PF_EN
- PF_CLEAR
- BBR_EN
- BBR_CLEAR


Log Panel Clear Log

Transaction Log





Name	Cmd	Result	Rea...
RESET	0x41	N/A	N/A
CHG...	0x1F	N/A	N/A
DSG_...	0x20	N/A	N/A

Auto Refresh is ON - Click to Turn OFF

bqStudio Version: 1.3.86



EV2400
Version:0.32

Data Memory

Read/Write Data Memory Contents

- Calibration
- Settings
- Protections
- Permanent Fail
- Advanced Charge Algorithm**
- Gas Gauging
- Power
- PF Status
- System Data
- SBS Configuration
- LED Support
- Black Box
- Lifetimes

Name	Value	Unit
Temperature Ranges		
T1 Temp	0	°C
T2 Temp	12	°C
T5 Temp	20	°C
T6 Temp	25	°C
T3 Temp	30	°C
T4 Temp	55	°C
Hysteresis Temp	1	°C
Low Temp Charging		
Voltage	4350	mV
Current Low	132	mA
Current Med	352	mA
Current High	264	mA
Standard Temp Charging		
Voltage	4350	mV
Current Low	1980	mA
Current Med	4004	mA
Current High	2992	mA
High Temp Charging		
Voltage	4350	mV
Current Low	1012	mA
Current Med	1980	mA
Current High	1496	mA
Rec Temp Charging		
Voltage	4350	mV
Current Low	2508	mA
Current Med	4488	mA
Current High	3520	mA
Pre-Charging		
Current	88	mA
Maintenance Charging		
Current	44	mA
Voltage Range		

Filter/Search

Auto Export Export Import Write_All Read All

- DEVICE_NUMBER
- HW_VERSION
- FW_VERSION
- FW_BUILD
- SHUTDOWN
- CC_OFFSET
- PCHG_FET_TOGGLE
- CHG_FET_TOGGLE
- DSG_FET_TOGGLE
- FET_EN
- LIFETIME_EN
- LT_RESET
- LT_FLUSH
- LT_TEST
- PF_EN
- PF_CLEAR
- BBR_EN
- BBR_CLEAR


Log Panel Clear Log

Transaction Log





Name	Cmd	Result	Rea...
RESET	0x41	N/A	N/A
CHG...	0x1F	N/A	N/A
DSG_...	0x20	N/A	N/A

Auto Refresh is ON - Click to Turn OFF

bqStudio Version: 1.3.86



EV2400
Version:0.32

Data Memory

Read/Write Data Memory Contents

- Calibration
- Settings
- Protections
- Permanent Fail
- Advanced Charge Algorithm**
- Gas Gauging
- Power
- PF Status
- System Data
- SBS Configuration
- LED Support
- Black Box
- Lifetimes

Name	Value	Unit
Voltage	4350	mV
Current Low	2508	mA
Current Med	4488	mA
Current High	3520	mA
Pre-Charging		
Current	88	mA
Maintenance Charging		
Current	44	mA
Voltage Range		
Precharge Start Voltage	2500	mV
Charging Voltage Low	2900	mV
Charging Voltage Med	3600	mV
Charging Voltage High	4350	mV
Charging Voltage Hysteresis	0	mV
SoC Range		
Charging SoC Med	50	%
Charging SoC High	75	%
Charging SoC Hysteresis	1	%
Termination Config		
Charge Term Taper Current	250	mA
Charge Term Voltage	75	mV
Charging Rate of Change		
Current Rate	1	steps
Voltage Rate	1	steps
Charge Loss Compensation		
CCC Current Threshold	3520	mA
CCC Voltage Threshold	4350	mV
Cell Balancing Config		
Cell Balance Threshold	3900	mV
Cell Balance Window	100	mV
Cell Balance Min	40	mV
Cell Balance Interval	20	s

Filter/Search

Auto Export Export Import Write_All Read All

- DEVICE_NUMBER
- HW_VERSION
- FW_VERSION
- FW_BUILD
- SHUTDOWN
- CC_OFFSET
- PCHG_FET_TOGGLE
- CHG_FET_TOGGLE
- DSG_FET_TOGGLE
- FET_EN
- LIFETIME_EN
- LT_RESET
- LT_FLUSH
- LT_TEST
- PF_EN
- PF_CLEAR
- BBR_EN
- BBR_CLEAR


Log Panel Clear Log

Transaction Log





Name	Cmd	Result	Rea...
RESET	0x41	N/A	N/A
CHG...	0x1F	N/A	N/A
DSG_...	0x20	N/A	N/A

Auto Refresh is ON - Click to Turn OFF

bqStudio Version: 1.3.86



EV2400
Version:0.32

Data Memory

Read/Write Data Memory Contents

- Calibration
- Settings
- Protections
- Permanent Fail
- Advanced Charge Algorithm
- Gas Gauging**
- Power
- PF Status
- System Data
- SBS Configuration
- LED Support
- Black Box
- Lifetimes

Name	Value	Unit
Current Thresholds		
Dsg Current Threshold	80	mA
Chg Current Threshold	20	mA
Quit Current	15	mA
Dsg Relax Time	1	s
Chg Relax Time	1	s
Design		
Design Capacity mAh	5300	mAh
Design Capacity cWh	4028	cWh
Design Voltage	7600	mV
Cycle		
Cycle Count Percentage	90	%
FD		
Set Voltage Threshold	3000	mV
Clear Voltage Threshold	3500	mV
Set % RSOC Threshold	0	%
Clear % RSOC Threshold	5	%
FC		
Set Voltage Threshold	4400	mV
Clear Voltage Threshold	4100	mV
Set % RSOC Threshold	100	%
Clear % RSOC Threshold	95	%
TD		
Set Voltage Threshold	3000	mV
Clear Voltage Threshold	3500	mV
Set % RSOC Threshold	6	%
Clear % RSOC Threshold	8	%
TC		
Set Voltage Threshold	4200	mV
Clear Voltage Threshold	4100	mV
Set % RSOC Threshold	100	%
Clear % RSOC Threshold	95	%
State		

Filter/Search

Auto Export Export Import Write_All Read All

- DEVICE_NUMBER
- HW_VERSION
- FW_VERSION
- FW_BUILD
- SHUTDOWN
- CC_OFFSET
- PCHG_FET_TOGGLE
- CHG_FET_TOGGLE
- DSG_FET_TOGGLE
- FET_EN
- LIFETIME_EN
- LT_RESET
- LT_FLUSH
- LT_TEST
- PF_EN
- PF_CLEAR
- BBR_EN
- BBR_CLEAR

Log Panel Clear Log

Transaction Log

Name	Cmd	Result	Rea...
RESET	0x41	N/A	N/A
CHG...	0x1F	N/A	N/A
DSG_...	0x20	N/A	N/A

Auto Refresh is ON - Click to Turn OFF

bqStudio Version: 1.3.86



EV2400
Version:0.32



Read/Write Data Memory Contents

- Calibration
- Settings
- Protections
- Permanent Fail
- Advanced Charge Algorithm
- Gas Gauging**
- Power
- PF Status
- System Data
- SBS Configuration
- LED Support
- Black Box
- Lifetimes

Name	Value	Unit
Set % RSOC Threshold	100	%
Clear % RSOC Threshold	95	%
State		
Cycle Count	1	-
Learned Full Charge Capacity	5300	mAh
CEDV cfg		
EMF	3743	-
C0	149	-
R0	867	-
T0	4030	-
R1	316	-
TC	9	-
C1	0	-
Age Factor	0	-
Fixed EDV 0	2950	-
EDV 0 Hold Time	1	s
Fixed EDV 1	3000	-
EDV 1 Hold Time	1	s
Fixed EDV 2	3050	-
EDV 2 Hold Time	1	s
Battery Low %	1.00	%
Min Delta V Filter	10	mV
Learning Low Temp	119	0.1°C
OverLoad Current	8000	mA
Self Discharge Rate	20	0.01%/day
Electronics Load	0	3uA
Near Full	200	mAh
Reserve Capacity	0	mAh
Chg Eff	100	%
Dsg Eff	100	%
CEDV Profile 1		
Voltage 0% DOD	4220	mV
Voltage 10% DOD	4100	mV

- DEVICE_NUMBER
- HW_VERSION
- FW_VERSION
- FW_BUILD
- SHUTDOWN
- CC_OFFSET
- PCHG_FET_TOGGLE
- CHG_FET_TOGGLE
- DSG_FET_TOGGLE
- FET_EN
- LIFETIME_EN
- LT_RESET
- LT_FLUSH
- LT_TEST
- PF_EN
- PF_CLEAR
- BBR_EN
- BBR_CLEAR


Log Panel Clear Log

Transaction Log





Name	Cmd	Result	Rea...
RESET	0x41	N/A	N/A
CHG...	0x1F	N/A	N/A
DSG_...	0x20	N/A	N/A

Auto Refresh is ON - Click to Turn OFF

bqStudio Version: 1.3.86



EV2400
Version:0.32

Data Memory

Read/Write Data Memory Contents

- Calibration
- Settings
- Protections
- Permanent Fail
- Advanced Charge Algorithm
- Gas Gauging**
- Power
- PF Status
- System Data
- SBS Configuration
- LED Support
- Black Box
- Lifetimes

Name	Value	Unit
Fixed EDV 1	3000	-
EDV 1 Hold Time	1	s
Fixed EDV 2	3050	-
EDV 2 Hold Time	1	s
Battery Low %	1.00	%
Min Delta V Filter	10	mV
Learning Low Temp	119	0.1°C
OverLoad Current	8000	mA
Self Discharge Rate	20	0.01%/day
Electronics Load	0	3uA
Near Full	200	mAh
Reserve Capacity	0	mAh
Chg Eff	100	%
Dsg Eff	100	%
▼ CEDV Profile 1		
Voltage 0% DOD	4220	mV
Voltage 10% DOD	4100	mV
Voltage 20% DOD	3970	mV
Voltage 30% DOD	3860	mV
Voltage 40% DOD	3750	mV
Voltage 50% DOD	3660	mV
Voltage 60% DOD	3624	mV
Voltage 70% DOD	3580	mV
Voltage 80% DOD	3525	mV
Voltage 90% DOD	3440	mV
Voltage 100% DOD	3000	mV
▼ CEDV Smoothing Config		
Smoothing Start Voltage	3700	mV
Smoothing Delta Voltage	100	mV
Max Smoothing Current	8000	mA
EOC Smooth Current	0.2	%
EOC Smooth Current Time	60	s

Filter/Search

Auto Export Export Import Write_All Read All

- DEVICE_NUMBER
- HW_VERSION
- FW_VERSION
- FW_BUILD
- SHUTDOWN
- CC_OFFSET
- PCHG_FET_TOGGLE
- CHG_FET_TOGGLE
- DSG_FET_TOGGLE
- FET_EN
- LIFETIME_EN
- LT_RESET
- LT_FLUSH
- LT_TEST
- PF_EN
- PF_CLEAR
- BBR_EN
- BBR_CLEAR

Log Panel Clear Log

Transaction Log

Name	Cmd	Result	Rea...
RESET	0x41	N/A	N/A
CHG...	0x1F	N/A	N/A
DSG_...	0x20	N/A	N/A

Auto Refresh is ON - Click to Turn OFF

bqStudio Version: 1.3.86



EV2400
Version:0.32



Data Memory

Filter/Search

Auto Export Export Import Write_All Read All

Read/Write Data Memory Contents

- Calibration
- Settings
- Protections
- Permanent Fail
- Advanced Charge Algorithm
- Gas Gauging
- Power**
- PF Status
- System Data
- SBS Configuration
- LED Support
- Black Box
- Lifetimes

Name	Value	Unit
✓ Power		
Valid Update Voltage	3300	mV
✓ Shutdown		
Shutdown Voltage	1750	mV
Shutdown Time	10	s
PF Shutdown Voltage	1750	mV
PF Shutdown Time	10	s
Charger Present Threshold	3000	mV
✓ Sleep		
Sleep Current	10	mA
Bus Timeout	5	s
Voltage Time	5	s
Current Time	20	s
Wake Comparator	00	hex
✓ Ship		
FET Off Time	10	s
Delay	20	s
Auto Ship Time	1440	min
✓ Power Off		
Timeout	30	min
✓ Manual FET Control		
MFC Delay	60	s

Commands

- DEVICE_NUMBER
- HW_VERSION
- FW_VERSION
- FW_BUILD
- SHUTDOWN
- CC_OFFSET
- PCHG_FET_TOGGLE
- CHG_FET_TOGGLE
- DSG_FET_TOGGLE
- FET_EN
- LIFETIME_EN
- LT_RESET
- LT_FLUSH
- LT_TEST
- PF_EN
- PF_CLEAR
- BBR_EN
- BBR_CLEAR

Log Panel Clear Log






Transaction Log

Name	Cmd	Result	Rea...
RESET	0x41	N/A	N/A
CHG...	0x1F	N/A	N/A
DSG_...	0x20	N/A	N/A

Auto Refresh is ON - Click to Turn OFF

bqStudio Version: 1.3.86

EV2400
Version:0.32

Data Memory

Read/Write Data Memory Contents

- Calibration
- Settings
- Protections
- Permanent Fail
- Advanced Charge Algorithm
- Gas Gauging
- Power
- PF Status**
- System Data
- SBS Configuration
- LED Support
- Black Box
- Lifetimes

Name	Value	Unit
Device Status Data		
Safety Alert A	00	hex
Safety Status A	00	hex
Safety Alert B	00	hex
Safety Status B	00	hex
Safety Alert C	00	hex
Safety Status C	00	hex
Safety Alert D	00	hex
Safety Status D	00	hex
PF Alert A	00	hex
PF Status A	00	hex
PF Alert B	00	hex
PF Status B	00	hex
PF Alert C	00	hex
PF Status C	00	hex
PF Alert D	00	hex
PF Status D	00	hex
Fuse Flag	0000	hex
Operation Status A	0000	hex
Operation Status B	0000	hex
Temp Range	00	hex
Charging Status A	00	hex
Charging Status B	00	hex
Gauging Status	00	hex
CEDV Status	00	hex
Device Voltage Data		
Cell 1 Voltage	0	mV
Cell 2 Voltage	0	mV
Cell 3 Voltage	0	mV
Cell 4 Voltage	0	mV
Battery Direct Voltage	0	mV
Pack Voltage	0	mV
Device Current Data		

Filter/Search Auto Export Export Import Write_All Read All

- DEVICE_NUMBER
- HW_VERSION
- FW_VERSION
- FW_BUILD
- SHUTDOWN
- CC_OFFSET
- PCHG_FET_TOGGLE
- CHG_FET_TOGGLE
- DSG_FET_TOGGLE
- FET_EN
- LIFETIME_EN
- LT_RESET
- LT_FLUSH
- LT_TEST
- PF_EN
- PF_CLEAR
- BBR_EN
- BBR_CLEAR

Log Panel Clear Log

Transaction Log

Name	Cmd	Result	Rea...
RESET	0x41	N/A	N/A
CHG...	0x1F	N/A	N/A
DSG_...	0x20	N/A	N/A

Auto Refresh is ON - Click to Turn OFF

bqStudio Version: 1.3.86



EV2400
Version:0.32



Data Memory

Filter/Search

Auto Export Export Import Write_All Read All

Read/Write Data Memory Contents

- Calibration
- Settings
- Protections
- Permanent Fail
- Advanced Charge Algorithm
- Gas Gauging
- Power
- PF Status
- System Data
- SBS Configuration
- LED Support
- Black Box
- Lifetimes

Name	Value	Unit
Battery Direct Voltage	0	mV
Pack Voltage	0	mV
Device Current Data		
Current	0	mA
Device Temperature Data		
Internal Temperature	-273.2	°C
External 1 Temperature	-273.2	°C
External 2 Temperature	-273.2	°C
External 3 Temperature	-273.2	°C
External 4 Temperature	-273.2	°C
AFE Regs		
AFE Interrupt Status	00	hex
AFE FET Status	00	hex
AFE RXIN	00	hex
AFE Latch Status	00	hex
AFE Interrupt Enable	00	hex
AFE FET Control	00	hex
AFE RXIEN	00	hex
AFE RLOUT	00	hex
AFE RHOUT	00	hex
AFE RHINT	00	hex
AFE Cell Balance	00	hex
AFE AD/CC Control	00	hex
AFE ADC Mux	00	hex
AFE LED Output	00	hex
AFE State Control	00	hex
AFE LED/Wake Control	00	hex
AFE Protection Control	00	hex
AFE OCD	00	hex
AFE SCC	00	hex
AFE SCD1	00	hex
AFE SCD2	00	hex

Commands

- DEVICE_NUMBER
- HW_VERSION
- FW_VERSION
- FW_BUILD
- SHUTDOWN
- CC_OFFSET
- PCHG_FET_TOGGLE
- CHG_FET_TOGGLE
- DSG_FET_TOGGLE
- FET_EN
- LIFETIME_EN
- LT_RESET
- LT_FLUSH
- LT_TEST
- PF_EN
- PF_CLEAR
- BBR_EN
- BBR_CLEAR

Log Panel Clear Log

Transaction Log

Name	Cmd	Result	Rea...
RESET	0x41	N/A	N/A
CHG...	0x1F	N/A	N/A
DSG_...	0x20	N/A	N/A

Auto Refresh is ON - Click to Turn OFF

bqStudio Version: 1.3.86



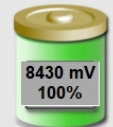
EV2400
Version:0.32



SMB



bq4050
9e34_0_01
Addr: 0x17
28.0 degC



8430 mV
100%



Read/Write Data Memory Contents

- Calibration
- Settings
- Protections
- Permanent Fail
- Advanced Charge Algorithm
- Gas Gauging
- Power
- PF Status
- System Data
- SBS Configuration
- LED Support
- Black Box
- Lifetimes

Name	Value	Unit
Manufacturer Data		
Manufacturer Info A Length	32	-
Manufacturer Info Block A01	61	Hex
Manufacturer Info Block A02	62	Hex
Manufacturer Info Block A03	63	Hex
Manufacturer Info Block A04	64	Hex
Manufacturer Info Block A05	65	Hex
Manufacturer Info Block A06	66	Hex
Manufacturer Info Block A07	67	Hex
Manufacturer Info Block A08	68	Hex
Manufacturer Info Block A09	69	Hex
Manufacturer Info Block A10	6a	Hex
Manufacturer Info Block A11	6b	Hex
Manufacturer Info Block A12	6c	Hex
Manufacturer Info Block A13	6d	Hex
Manufacturer Info Block A14	6e	Hex
Manufacturer Info Block A15	6f	Hex
Manufacturer Info Block A16	70	Hex
Manufacturer Info Block A17	71	Hex
Manufacturer Info Block A18	72	Hex
Manufacturer Info Block A19	73	Hex
Manufacturer Info Block A20	74	Hex
Manufacturer Info Block A21	75	Hex
Manufacturer Info Block A22	76	Hex
Manufacturer Info Block A23	77	Hex
Manufacturer Info Block A24	7a	Hex
Manufacturer Info Block A25	78	Hex
Manufacturer Info Block A26	79	Hex
Manufacturer Info Block A27	30	Hex
Manufacturer Info Block A28	31	Hex
Manufacturer Info Block A29	32	Hex
Manufacturer Info Block A30	33	Hex

- DEVICE_NUMBER
- HW_VERSION
- FW_VERSION
- FW_BUILD
- SHUTDOWN
- CC_OFFSET
- PCHG_FET_TOGGLE
- CHG_FET_TOGGLE
- DSG_FET_TOGGLE
- FET_EN
- LIFETIME_EN
- LT_RESET
- LT_FLUSH
- LT_TEST
- PF_EN
- PF_CLEAR
- BBR_EN
- BBR_CLEAR


Log Panel Clear Log

Transaction Log


Name	Cmd	Result	Rea...
CHG...	0x1F	N/A	N/A
DSG_...	0x20	N/A	N/A
DSG_...	0x20	N/A	N/A
CHG...	0x1F	N/A	N/A
DSG_...	0x20	N/A	N/A
CHG...	0x1F	N/A	N/A

Auto Refresh is ON - Click to Turn OFF


bqStudio Version: 1.3.86



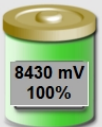
EV2400
Version:0.32




SMB



bq4050
9e34_0_01
Addr: 0x17
27.9 degC



8430 mV
100%



Read/Write Data Memory Contents

- Calibration
- Settings
- Protections
- Permanent Fail
- Advanced Charge Algorithm
- Gas Gauging
- Power
- PF Status
- System Data**
- SBS Configuration
- LED Support
- Black Box
- Lifetimes

Name	Value	Unit
Manufacturer Info Block A11	6b	Hex
Manufacturer Info Block A12	6c	Hex
Manufacturer Info Block A13	6d	Hex
Manufacturer Info Block A14	6e	Hex
Manufacturer Info Block A15	6f	Hex
Manufacturer Info Block A16	70	Hex
Manufacturer Info Block A17	71	Hex
Manufacturer Info Block A18	72	Hex
Manufacturer Info Block A19	73	Hex
Manufacturer Info Block A20	74	Hex
Manufacturer Info Block A21	75	Hex
Manufacturer Info Block A22	76	Hex
Manufacturer Info Block A23	77	Hex
Manufacturer Info Block A24	7a	Hex
Manufacturer Info Block A25	78	Hex
Manufacturer Info Block A26	79	Hex
Manufacturer Info Block A27	30	Hex
Manufacturer Info Block A28	31	Hex
Manufacturer Info Block A29	32	Hex
Manufacturer Info Block A30	33	Hex
Manufacturer Info Block A31	34	Hex
Manufacturer Info Block A32	35	Hex
Manufacturer Info B		
Manufacturer Info Block B01	01	Hex
Manufacturer Info Block B02	23	Hex
Manufacturer Info Block B03	45	Hex
Manufacturer Info Block B04	67	Hex
Integrity		
Static DF Signature	0000	hex
Static Chem DF Signature	6c98	hex
All DF Signature	0000	hex

- DEVICE_NUMBER
- HW_VERSION
- FW_VERSION
- FW_BUILD
- SHUTDOWN
- CC_OFFSET
- PCHG_FET_TOGGLE
- CHG_FET_TOGGLE
- DSG_FET_TOGGLE
- FET_EN
- LIFETIME_EN
- LT_RESET
- LT_FLUSH
- LT_TEST
- PF_EN
- PF_CLEAR
- BBR_EN
- BBR_CLEAR

Log Panel Clear Log

Transaction Log

Name	Cmd	Result	Rea...
CHG...	0x1F	N/A	N/A
DSG...	0x20	N/A	N/A
DSG...	0x20	N/A	N/A
CHG...	0x1F	N/A	N/A
DSG...	0x20	N/A	N/A
CHG...	0x1F	N/A	N/A

Auto Refresh is ON - Click to Turn OFF

bqStudio Version: 1.3.86



EV2400
Version:0.32



SMB



bq4050
9e34_0_01
Addr: 0x17
27.9 degC



8430 mV
100%



Data Memory

Read/Write Data Memory Contents

- Calibration
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- Protections
- Permanent Fail
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- Power
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- System Data
- SBS Configuration**
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- Lifetimes

Name	Value	Unit
Remaining AH Cap. Alarm	300	mAh
Remaining WH Cap. Alarm	432	cWh
Remaining Time Alarm	10	min
Initial Battery Mode	0081	hex
Specification Information	0031	hex
Manufacture Date	1980-1-1	date
Serial Number	0001	hex
Manufacturer Name	Texas Instruments	-
Device Name	bq4050	-
Device Chemistry	LION	-

Filter/Search Auto Export Export Import Write_All Read All

Commands

- DEVICE_NUMBER
- HW_VERSION
- FW_VERSION
- FW_BUILD
- SHUTDOWN
- CC_OFFSET
- PCHG_FET_TOGGLE
- CHG_FET_TOGGLE
- DSG_FET_TOGGLE
- FET_EN
- LIFETIME_EN
- LT_RESET
- LT_FLUSH
- LT_TEST
- PF_EN
- PF_CLEAR
- BBR_EN
- BBR_CLEAR

Log Panel

Clear Log

Transaction Log

Name	Cmd	Result	Rea...
CHG...	0x1F	N/A	N/A
DSG...	0x20	N/A	N/A
DSG...	0x20	N/A	N/A
CHG...	0x1F	N/A	N/A
DSG...	0x20	N/A	N/A
CHG...	0x1F	N/A	N/A