|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| \* Texas Instruments Data Flash File |  |  |  |  |  |
| \* File created Mon Jun 26 10:11:05 2017 |  |  |  |  |  |
| \* |  |  |  |  |  |
| \* Device Number 100 |  |  |  |  |  |
| \* Firmware Version 0.16 |  |  |  |  |  |
| \* Build Number not available |  |  |  |  |  |
| \* Order Number not available |  |  |  |  |  |
| \* |  |  |  |  |  |
| \* bqz Device Number 100 |  |  |  |  |  |
| \* bqz Firmware Version 0.16 |  |  |  |  |  |
| \* bqz Build Number 17 |  |  |  |  |  |
| \* |  |  |  |  |  |
| \* Field Order: Class name | Subclass name | Parameter name | Parameter Value | Display Units | |
| Configuration | Safety | OT Chg | 55 | 1degC |  |
| Configuration | Safety | OT Chg Time | 2 | Seconds |  |
| Configuration | Safety | OT Chg Recovery | 50 | 1degC |  |
| Configuration | Safety | OT Dsg | 60 | 1degC |  |
| Configuration | Safety | OT Dsg Time | 2 | Seconds |  |
| Configuration | Safety | OT Dsg Recovery | 55 | 1degC |  |
| Configuration | Charge Inhibit Cfg | Chg Inhibit Temp Low | 0 | 1degC |  |
| Configuration | Charge Inhibit Cfg | Chg Inhibit Temp High | 45 | 1degC |  |
| Configuration | Charge Inhibit Cfg | Temp Hys | 5 | 1degC |  |
| Configuration | Charge | Suspend Low Temp | -5 | 1degC |  |
| Configuration | Charge | Suspend High Temp | 55 | 1degC |  |
| Configuration | Charge | Pb EFF Efficiency | 100 | % |  |
| Configuration | Charge | Pb Temp Comp | 24.96 | % |  |
| Configuration | Charge | Pb Drop Off Percent | 96 | % |  |
| Configuration | Charge | Pb Reduction Rate | 10 | % |  |
| Configuration | Charge Termination | Taper Current | 500 | mAmp |  |
| Configuration | Charge Termination | Min Taper Capacity | 10 | mAmpHr |  |
| Configuration | Charge Termination | Cell Taper Voltage | 100 | mVolt |  |
| Configuration | Charge Termination | Current Taper Window | 40 | Seconds |  |
| Configuration | Charge Termination | TCA Set % | 99 | Percent |  |
| Configuration | Charge Termination | TCA Clear % | 95 | Percent |  |
| Configuration | Charge Termination | FC Set % | -1 | Percent |  |
| Configuration | Charge Termination | FC Clear % | 95 | Percent |  |
| Configuration | Charge Termination | DODatEOC Delta T | 10 | 1degC |  |
| Configuration | Charge Termination | NiMH Delta Temp | 3 | 1degC |  |
| Configuration | Charge Termination | NiMH Delta Temp Time | 180 | Seconds |  |
| Configuration | Charge Termination | NiMH Hold Off Time | 100 | Seconds |  |
| Configuration | Charge Termination | NiMH Hold Off Current | 240 | mAmp |  |
| Configuration | Charge Termination | NiMH Hold Off Temp | 25 | 1degC |  |
| Configuration | Charge Termination | NiMH Cell Negative Delta Volt | 17 | mVolt |  |
| Configuration | Charge Termination | NiMH Cell Negative Delta Time | 16 | Seconds |  |
| Configuration | Charge Termination | NiMH Cell Neg Delta Qual Volt | 4200 | mVolt |  |
| Configuration | Data | Manufacture Date | 01-01-80 | Day + Mo\*32 + (Yr -1980)\*256 | |
| Configuration | Data | Serial Number | 1 | hex |  |
| Configuration | Data | Cycle Count | 5 | Count |  |
| Configuration | Data | CC Threshold | 8100 | mAmpHr |  |
| Configuration | Data | Max Error Limit | 100 | % |  |
| Configuration | Data | Design Capacity | 9000 | MilliAmpHour | |
| Configuration | Data | Design Energy | 23040 | MilliWattHour | |
| Configuration | Data | SOH Load I | -4500 | MilliAmp |  |
| Configuration | Data | Cell Charge Voltage T1-T2 | 3500 | mV |  |
| Configuration | Data | Cell Charge Voltage T2-T3 | 3500 | mV |  |
| Configuration | Data | Cell Charge Voltage T3-T4 | 3450 | mV |  |
| Configuration | Data | Charge Current T1-T2 | 15 | Percent |  |
| Configuration | Data | Charge Current T2-T3 | 28 | Percent |  |
| Configuration | Data | Charge Current T3-T4 | 15 | Percent |  |
| Configuration | Data | JEITA T1 | 0 | degC |  |
| Configuration | Data | JEITA T2 | 10 | degC |  |
| Configuration | Data | JEITA T3 | 45 | degC |  |
| Configuration | Data | JEITA T4 | 55 | degC |  |
| Configuration | Data | Design Energy Scale | 10 | Number |  |
| Configuration | Data | Device Name | bq34z100-G1 | - |  |
| Configuration | Data | Manufacturer Name | IDE\_v1 | - |  |
| Configuration | Data | Device Chemistry | LION | - |  |
| Configuration | Discharge | SOC1 Set Threshold | 500 | mAh |  |
| Configuration | Discharge | SOC1 Clear Threshold | 600 | mAh |  |
| Configuration | Discharge | SOCF Set Threshold | 200 | mAh |  |
| Configuration | Discharge | SOCF Clear Threshold | 250 | mAh |  |
| Configuration | Discharge | Cell BL Set Volt Threshold | 2450 | mVolt |  |
| Configuration | Discharge | Cell BL Set Volt Time | 2 | Seconds |  |
| Configuration | Discharge | Cell BL Clear Volt Threshold | 2600 | mVolt |  |
| Configuration | Discharge | Cell BH Set Volt Threshold | 3550 | mVolt |  |
| Configuration | Discharge | Cell BH Volt Time | 2 | Seconds |  |
| Configuration | Discharge | Cell BH Clear Volt Threshold | 3500 | mVolt |  |
| Configuration | Discharge | Cycle Delta | 0.05 | % |  |
| Configuration | Manufacturer Data | Pack Lot Code | 0 | hex |  |
| Configuration | Manufacturer Data | PCB Lot Code | 0 | hex |  |
| Configuration | Manufacturer Data | Firmware Version | 0 | hex |  |
| Configuration | Manufacturer Data | Hardware Revision | 0 | hex |  |
| Configuration | Manufacturer Data | Cell Revision | 0 | hex |  |
| Configuration | Manufacturer Data | DF Config Version | 0 | hex |  |
| Configuration | Lifetime Data | Lifetime Max Temp | 31 | 1degC |  |
| Configuration | Lifetime Data | Lifetime Min Temp | 16.3 | 1degC |  |
| Configuration | Lifetime Data | Lifetime Max Chg Current | 2548 | mAmp |  |
| Configuration | Lifetime Data | Lifetime Max Dsg Current | -4871 | mA |  |
| Configuration | Lifetime Data | Lifetime Max Pack Voltage | 1460 | 20mV |  |
| Configuration | Lifetime Data | Lifetime Min Pack Voltage | 0 | 20mV |  |
| Configuration | Lifetime Temp Samples | LT Flash Cnt | 44 | Count |  |
| Configuration | Registers | Pack Configuration | 29d9 | flags |  |
| Configuration | Registers | Pack Configuration B | af | flags |  |
| Configuration | Registers | Pack Configuration C | 37 | flags |  |
| Configuration | Registers | LED\_Comm Configuration | 0 | flags |  |
| Configuration | Registers | Alert Configuration | 0 | flags |  |
| Configuration | Registers | Number of series cell | 8 | num |  |
| Configuration | Lifetime Resolution | LT Temp Res | 1 | 1degC |  |
| Configuration | Lifetime Resolution | LT Cur Res | 100 | mA |  |
| Configuration | Lifetime Resolution | LT V Res | 1 | 20mV |  |
| Configuration | Lifetime Resolution | LT Update Time | 60 | Seconds |  |
| Configuration | LED Display | LED Hold Time | 4 | Num |  |
| Configuration | Power | Flash Update OK Cell Volt | 2200 | mVolt |  |
| Configuration | Power | Sleep Current | 10 | mAmp |  |
| Configuration | Power | FS Wait | 0 | Seconds |  |
| System Data | Manufacturer Info | Block A 0 | 0 | hex |  |
| System Data | Manufacturer Info | Block A 1 | 0 | hex |  |
| System Data | Manufacturer Info | Block A 2 | 0 | hex |  |
| System Data | Manufacturer Info | Block A 3 | 0 | hex |  |
| System Data | Manufacturer Info | Block A 4 | 0 | hex |  |
| System Data | Manufacturer Info | Block A 5 | 0 | hex |  |
| System Data | Manufacturer Info | Block A 6 | 0 | hex |  |
| System Data | Manufacturer Info | Block A 7 | 0 | hex |  |
| System Data | Manufacturer Info | Block A 8 | 0 | hex |  |
| System Data | Manufacturer Info | Block A 9 | 0 | hex |  |
| System Data | Manufacturer Info | Block A 10 | 0 | hex |  |
| System Data | Manufacturer Info | Block A 11 | 0 | hex |  |
| System Data | Manufacturer Info | Block A 12 | 0 | hex |  |
| System Data | Manufacturer Info | Block A 13 | 0 | hex |  |
| System Data | Manufacturer Info | Block A 14 | 0 | hex |  |
| System Data | Manufacturer Info | Block A 15 | 0 | hex |  |
| System Data | Manufacturer Info | Block A 16 | 0 | hex |  |
| System Data | Manufacturer Info | Block A 17 | 0 | hex |  |
| System Data | Manufacturer Info | Block A 18 | 0 | hex |  |
| System Data | Manufacturer Info | Block A 19 | 0 | hex |  |
| System Data | Manufacturer Info | Block A 20 | 0 | hex |  |
| System Data | Manufacturer Info | Block A 21 | 0 | hex |  |
| System Data | Manufacturer Info | Block A 22 | 0 | hex |  |
| System Data | Manufacturer Info | Block A 23 | 0 | hex |  |
| System Data | Manufacturer Info | Block A 24 | 0 | hex |  |
| System Data | Manufacturer Info | Block A 25 | 0 | hex |  |
| System Data | Manufacturer Info | Block A 26 | 0 | hex |  |
| System Data | Manufacturer Info | Block A 27 | 0 | hex |  |
| System Data | Manufacturer Info | Block A 28 | 0 | hex |  |
| System Data | Manufacturer Info | Block A 29 | 0 | hex |  |
| System Data | Manufacturer Info | Block A 30 | 0 | hex |  |
| System Data | Manufacturer Info | Block A 31 | 0 | hex |  |
| Gas Gauging | IT Cfg | Load Select | 1 | Number |  |
| Gas Gauging | IT Cfg | Load Mode | 0 | Number |  |
| Gas Gauging | IT Cfg | Res Current | 10 | mAmp |  |
| Gas Gauging | IT Cfg | Max Res Factor | 15 | num |  |
| Gas Gauging | IT Cfg | Min Res Factor | 3 | num |  |
| Gas Gauging | IT Cfg | Ra Filter | 500 | num |  |
| Gas Gauging | IT Cfg | Min PassedChg NiMH-LA 1st Qmax | 50 | % |  |
| Gas Gauging | IT Cfg | Maximum Qmax Change | 30 | % |  |
| Gas Gauging | IT Cfg | Cell Terminate Voltage | 2500 | mVolt |  |
| Gas Gauging | IT Cfg | Cell Term V Delta | 200 | mVolt |  |
| Gas Gauging | IT Cfg | ResRelax Time | 500 | Seconds |  |
| Gas Gauging | IT Cfg | User Rate-mA | 0 | MilliAmp |  |
| Gas Gauging | IT Cfg | User Rate-Pwr | 0 | mW/cW |  |
| Gas Gauging | IT Cfg | Reserve Cap-mAh | 0 | MilliAmpHour | |
| Gas Gauging | IT Cfg | Reserve Energy | 0 | mWh/cWh | |
| Gas Gauging | IT Cfg | Max Scale Back Grid | 4 | num |  |
| Gas Gauging | IT Cfg | Cell Min DeltaV | 0 | mVolt |  |
| Gas Gauging | IT Cfg | Ra Max Delta | 15 | % |  |
| Gas Gauging | IT Cfg | Design Resistance | 60 | mOhms |  |
| Gas Gauging | IT Cfg | Reference Grid | 4 | - |  |
| Gas Gauging | IT Cfg | Qmax Max Delta % | 10 | mAmpHour | |
| Gas Gauging | IT Cfg | Max Res Scale | 500 | Num |  |
| Gas Gauging | IT Cfg | Min Res Scale | 200 | Num |  |
| Gas Gauging | IT Cfg | Fast Scale Start SOC | 10 | % |  |
| Gas Gauging | IT Cfg | Charge Hys V Shift | 40 | mVolt |  |
| Gas Gauging | IT Cfg | Smooth Relax Time | 1000 | s |  |
| Gas Gauging | Current Thresholds | Dsg Current Threshold | 60 | mAmp |  |
| Gas Gauging | Current Thresholds | Chg Current Threshold | 75 | mAmp |  |
| Gas Gauging | Current Thresholds | Quit Current | 40 | mAmp |  |
| Gas Gauging | Current Thresholds | Dsg Relax Time | 60 | Seconds |  |
| Gas Gauging | Current Thresholds | Chg Relax Time | 60 | Seconds |  |
| Gas Gauging | Current Thresholds | Cell Max IR Correct | 400 | mV |  |
| Gas Gauging | State | Qmax Cell 0 | 9574 | mAmpHr |  |
| Gas Gauging | State | Cycle Count | 5 | num |  |
| Gas Gauging | State | Update Status | 6 | num |  |
| Gas Gauging | State | Cell V at Chg Term | 3490 | mVolt |  |
| Gas Gauging | State | Avg I Last Run | -3146 | mAmp |  |
| Gas Gauging | State | Avg P Last Run | -995 | MilliWattHour | |
| Gas Gauging | State | Cell Delta Voltage | 1 | mVolt |  |
| Gas Gauging | State | T Rise | 20 | Num |  |
| Gas Gauging | State | T Time Constant | 1000 | Num |  |
| Ra Tables | Ra0 Table | Ra Flag | 0 | Hex |  |
| Ra Tables | Ra0 Table | Ra 0 | 36 | Num |  |
| Ra Tables | Ra0 Table | Ra 1 | 36 | Num |  |
| Ra Tables | Ra0 Table | Ra 2 | 27 | Num |  |
| Ra Tables | Ra0 Table | Ra 3 | 23 | Num |  |
| Ra Tables | Ra0 Table | Ra 4 | 26 | Num |  |
| Ra Tables | Ra0 Table | Ra 5 | 29 | Num |  |
| Ra Tables | Ra0 Table | Ra 6 | 28 | Num |  |
| Ra Tables | Ra0 Table | Ra 7 | 28 | Num |  |
| Ra Tables | Ra0 Table | Ra 8 | 28 | Num |  |
| Ra Tables | Ra0 Table | Ra 9 | 30 | Num |  |
| Ra Tables | Ra0 Table | Ra 10 | 41 | Num |  |
| Ra Tables | Ra0 Table | Ra 11 | 46 | Num |  |
| Ra Tables | Ra0 Table | Ra 12 | 50 | Num |  |
| Ra Tables | Ra0 Table | Ra 13 | 98 | Num |  |
| Ra Tables | Ra0 Table | Ra 14 | 298 | Num |  |
| Ra Tables | Ra0x Table | Ra Flag | 55 | Hex |  |
| Ra Tables | Ra0x Table | Ra 0 | 36 | Num |  |
| Ra Tables | Ra0x Table | Ra 1 | 36 | Num |  |
| Ra Tables | Ra0x Table | Ra 2 | 27 | Num |  |
| Ra Tables | Ra0x Table | Ra 3 | 23 | Num |  |
| Ra Tables | Ra0x Table | Ra 4 | 26 | Num |  |
| Ra Tables | Ra0x Table | Ra 5 | 29 | Num |  |
| Ra Tables | Ra0x Table | Ra 6 | 28 | Num |  |
| Ra Tables | Ra0x Table | Ra 7 | 28 | Num |  |
| Ra Tables | Ra0x Table | Ra 8 | 28 | Num |  |
| Ra Tables | Ra0x Table | Ra 9 | 30 | Num |  |
| Ra Tables | Ra0x Table | Ra 10 | 41 | Num |  |
| Ra Tables | Ra0x Table | Ra 11 | 46 | Num |  |
| Ra Tables | Ra0x Table | Ra 12 | 50 | Num |  |
| Ra Tables | Ra0x Table | Ra 13 | 101 | Num |  |
| Ra Tables | Ra0x Table | Ra 14 | 307 | Num |  |
| Calibration | Data | CC Gain | 4.603 | mohm |  |
| Calibration | Data | CC Delta | 5 | mohm |  |
| Calibration | Data | CC Offset | -1436 | num |  |
| Calibration | Data | Board Offset | -60 | num |  |
| Calibration | Data | Int Temp Offset | 0 | degC |  |
| Calibration | Data | Ext Temp Offset | -0.3 | degC |  |
| Calibration | Data | Voltage Divider | 35681 | mVolt |  |
| Calibration | Current | Deadband | 5 | mAmp |  |
| Security | Codes | Sealed to Unsealed | 36720414 | hex |  |
| Security | Codes | Unsealed to Full | ffffffff | hex |  |
| Security | Codes | Authen Key3 | 1234567 | hex |  |
| Security | Codes | Authen Key2 | 89abcdef | hex |  |
| Security | Codes | Authen Key1 | fedcba98 | hex |  |
| Security | Codes | Authen Key0 | 76543210 | hex |  |