CAN Packet Data Structure

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| CAN Packet | Frame ID | Extended Frame | Length | Signal | Start Bit | Length | Byte Order | Signed | Scale | Offset | Minimum | Maximum | Unit |
| CAN\_PACKET\_BMS\_TEMPS | 11018 | Yes | 8 | NoOfCells | 15 | 8 | Big Endian | No | 1 | 0 | 0 | 1 |  |
|  |  |  |  | auxVoltagesIndividual1 | 23 | 16 | Big Endian | No | 0.01 | 0 |  |  |  |
|  |  |  |  | auxVoltagesIndividual2 | 39 | 16 | Big Endian | No | 0.01 | 0 |  |  |  |
|  |  |  |  | auxVoltagesIndividual3 | 55 | 16 | Big Endian | No | 0.01 | 0 |  |  |  |
| CAN\_PACKET\_BMS\_V\_TOT | 9738 | Yes | 8 | packVoltage | 7 | 32 | Big Endian | Yes | 1 | 0 | -3.4e+38 | 3.4e+38 | V |
|  |  |  |  | chargerVoltage | 39 | 32 | Big Endian | Yes | 1 | 0 | 0 | 1 | V |
| CAN\_PACKET\_BMS\_I | 9994 | Yes | 8 | packCurrent1 | 7 | 32 | Big Endian | Yes | 1 | 0 | 0 | 1 | A |
|  |  |  |  | packCurrent2 | 39 | 32 | Big Endian | Yes | 1 | 0 | 0 | 1 | A |
| CAN\_PACKET\_BMS\_AH\_WH | 10250 | Yes | 8 | Ah\_Counter | 7 | 32 | Big Endian | Yes | 1 | 0 | 0 | 1 | Ah |
|  |  |  |  | Wh\_Counter | 39 | 32 | Big Endian | Yes | 1 | 0 | 0 | 1 | Wh |
| CAN\_PACKET\_BMS\_V\_CELL | 10506 | Yes | 8 | cellPoint | 7 | 8 | Big Endian | No | 1 | 0 | 0 | 48 |  |
|  |  |  |  | NoOfCells | 15 | 8 | Big Endian | No | 1 | 0 | 0 | 48 |  |
|  |  |  |  | cellVoltage10 | 23 | 16 | Big Endian | No | 0.001 | 0 | 0 | 1 | V |
|  |  |  |  | cellVoltage11 | 39 | 16 | Big Endian | No | 0.001 | 0 | 0 | 1 | V |
|  |  |  |  | cellVoltage12 | 55 | 16 | Big Endian | No | 0.001 | 0 | 0 | 1 | V |
| CAN\_PACKET\_BMS\_BAL | 10762 | Yes | 8 | NoOfCells | 0 | 8 | Little Endian | Yes | 1 | 0 |  |  |  |
|  |  |  |  | bal\_state | 8 | 56 | Little Endian | Yes | 1 | 0 | 0 | 1 |  |
| CAN\_PACKET\_BMS\_SOC\_SOH\_TEMP\_STAT | 11530 | Yes | 8 | cellVoltageLow | 7 | 16 | Big Endian | No | 0.001 | 0 | 0 | 1 | V |
|  |  |  |  | cellVoltageHigh | 23 | 16 | Big Endian | No | 0.001 | 0 | 0 | 1 | V |
|  |  |  |  | SOC | 39 | 8 | Big Endian | No | 0.392156863 | 0 | 0 | 1 | % |
|  |  |  |  | SOH | 47 | 8 | Big Endian | No | 0.3922 | 0 | 0 | 100 | % |
|  |  |  |  | tBattHi | 55 | 8 | Big Endian | No | 1 | 0 | 0 | 1 | C |
|  |  |  |  | BitF | 63 | 8 | Big Endian | No | 1 | 0 | 0 | 1 |  |
| CAN\_PACKET\_BMS\_HUM | 11274 | Yes | 6 | CAN\_PACKET\_BMS\_TEMP0 | 7 | 16 | Big Endian | No | 0.01 | 0 | 0 | 1 | C |
|  |  |  |  | CAN\_PACKET\_BMS\_HUM\_HUM | 23 | 16 | Big Endian | No | 0.01 | 0 | 0 | 1 | % |
|  |  |  |  | CAN\_PACKET\_BMS\_HUM\_TEMP1 | 39 | 16 | Big Endian | No | 0.01 | 0 | 0 | 1 | C |