1. Question 1



2. Question 2



Heartbeat during idle

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| D[0] | D[1] | D[2] | D[3] | D[4] | D[5] | D[6] | D[7] |
| 0x01 | - | - | - | - | - | - | - |

Note: - means not available

Heartbeat during charging

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| D[0] | D[1] | D[2] | D[3] | D[4] | D[5] | D[6] | D[7] |
| 0x02 | - | - | - | - | - | - | - |

Heartbeat when stop charging

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| D[0] | D[1] | D[2] | D[3] | D[4] | D[5] | D[6] | D[7] |
| 0x01 | - | - | - | - | - | - | - |

Incoming (BMS to charger) during start charging

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| D[0] | D[1] | D[2] | D[3] | D[4] | D[5] | D[6] | D[7] |
| 0x01 | 0x41 | 0x03 | 0xE8 | 0x01 | - | - | - |

Note, the data in the table is only for example:

Voltage reference = 0x0141 = (312)D in decimal

Current reference = 0x03E8 = (1000)D in decimal

Enable command = 0x01 , //start charging

Outgoing (Charger to BMS) during start charging

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| D[0] | D[1] | D[2] | D[3] | D[4] | D[5] | D[6] | D[7] |
| 0x01 | 0x41 | 0x03 | 0xE8 | 0x01 | - | - | - |

Note, the data in the table is only for example:

voltage feedback = 0x0141 = (312)D in decimal

Current feedback = 0x03E8 = (1000)D in decimal

Enable command = 0x01, //charging status is start charging

Incoming (BMS to charger) during stop charging

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| D[0] | D[1] | D[2] | D[3] | D[4] | D[5] | D[6] | D[7] |
| 0x01 | 0x41 | 0x03 | 0xE8 | 0x00 | - | - | - |

Note : Beside voltage reference and current reference info,

Enable command = 0x0 //stop charging

Outgoing (Charger to BMS) during stop charging

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| D[0] | D[1] | D[2] | D[3] | D[4] | D[5] | D[6] | D[7] |
| 0x01 | 0x41 | 0x03 | 0xE8 | 0x00 | - | - | - |

Note : Beside voltage feedback and current feedback info,

Enable command status = 0x0 //stop charging