GPS protocol test read all data

[17:15:40.815]send→◇ [17:15:40.908]recieve←◆

4E 57 00 13 00 00 00 00 06 03 00 00 00 00 00 00 68 00 00 01 29 □

4E 57 01 0B 00 00 00 00 06 00 0179 3C 01 0E F9 02 0E F8 03 0F 01

04 0F 03 05 0F 02 06 0F 05 07 0F 02 08 0F 05 09 0E FB 0A 0E C8 0B 0E CB 0C 0E 9A 0D 0E C5 0E 0E

C6 0F 0E CB 10 0E C1 11 0E CD 12 0E CB 13 0E BC 14 0E C2 80 00 1B 81 00 1E 82 00 1E 83 1D BC

84 27 10 85 47 86 02 87 00 01 89 00 00 00 00 8A 00 14 8B 00 00 8C 00 0B 8E 20 D0 8F 15 E0 90

10 68 91 10 36 92 00 04 93 0A F0 94 0B 54 95 00 04 96 01 2C 97 00 28 98 00 04 99 00 14 9A 00

04 9B 10 36 9C 00 64 9D 00 9E 00 64 9F 00 50 A0 00 50 A1 00 46 A2 00 14 A3 00 64 A4 00 64 A5

FF EC A6 FF F6 A7 FF EC A8 FF F6 A9 14 AA 00 00 00 28 AB 00 AC 00 AD 03 E8 AE 01 AF 01 B0 00

0A B1 14 B2 00 00 00 00 00 00 00 00 00 00 B3 01 B4 36 30 33 30 30 30 30 31 B5 32 30 30 34 B6

00 00 00 01 B7 4E 57 5F 31 5F 30 5F 30 5F 32 30 30 34 32 38 00 00 00 00 68 00 00 49 23

Data analysis 0x79 adress

79 3C 01 0E F9 02 0E F8 03 0F 01 04 0F 03 05 0F 02 06 0F 05 07 0F 02 08 0F 05 09 0E FB 0A 0E C8

0B 0E CB 0C 0E 9A 0D 0E C5 0E 0E C6 0F 0E CB 10 0E C1 11 0E CD 12 0E CB 13 0E BC 14 0E C2

3C：length 60 normal

|  |  |  |
| --- | --- | --- |
| 0x80 地址  80 00 1B | Power Tube Temperature 1B-27° | normal |
| 0x81 地址  81 00 1E | Balance plate temperature 1E-30° | normal |
| 0x82 地址  82 00 1E | Battery temperature 1E-30° | normal |
| 0x83 地址 |  |  |
| 83 1D BC | Total battery voltage 76.12 | normal |
| 0x84 地址 |  |  |
| 84 27 10 | Current data 10000 free | normal |
| 0x85 地址 |  |  |
| 85 47 | SOC 71% | normal |
| 0x86 地址 |  |  |
| 86 02 | Number of sensors 2 | normal |
| 0x87 地址 |  |  |
| 87 00 01 | Number of battery cycles 1 | normal |
| 0x89 地址 |  |  |
| 89 00 00 00 00 | Total battery cycle cap acity | normal |

|  |  |  |
| --- | --- | --- |
| 0 x 8 A 地址  8A 00 14 | Total numb er o f batter y s t r ings 20 | normal |
| 0 x 8 B 地址 |  |  |
| 8B 00 00 | No alarm information | normal |
| 0x8C |  |  |
| 8C 00 0B | Charge discharge MOS tube open | normal |
| 0x8E |  |  |
| 8E 20 D0 | Total voltage o vervoltage protection 84 . 00 V | normal |
| 0x8F |  |  |
| 8F 15 E0 | Total voltage undervoltage p rotection 56 . 00 V | normal |
| 0 x 90 |  |  |
| 90 10 68 | Single overvoltage protection voltage 4200 m V | normal |
| 0x91 |  |  |
| 91 10 36 | Monomer overvoltage recovery voltage 4150 Mv | normal |
| 0x92 |  |  |
| 92 00 04 | Single over voltage p rotectio n delay of 4 seconds | normal |
| 0x93 |  |  |
| 93 0A F0 | Single undervoltage protection voltage 2800 MV | normal |
| 0 x 94 |  |  |
| 94 0B 54 | Monomer undervo l tage r eco very voltage 2900 MV | normal |
| 0 x 95 |  |  |
| 95 00 04 | The single undervoltage protection is delayed for 4 seconds | normal |
| 0 x 96 |  |  |
| 96 01 2C  0 x 97 | Differential voltage p rotection valu e o f cell 300 m V | normal |
| 97 00 28 | Disch ar ge o vercurr ent protection value 40 A | normal |
| 0 x 98 |  |  |
| 98 00 04 | 4 seconds for discharge over castin g | normal |
| 0 x 99 |  |  |
| 99 00 14 | Chargin g overcurr ent protection value 20 A | normal |

0 x 9 A

9A 00 04 4 seconds wh en ch arging o ver s t r eamer normal

0 x 9 B

9B 10 36 Balanced s t arting voltage 4150 mv normal

0 x 9 C

9C 00 64 Equalizing opening differential pr essure 100 m V normal

0 x 9 d

9D 00 Equalizin g switch o f f normal

0 x 9 E

9E 00 64 Power tube temperature protection value 100 normal

0 x 9 F

9F 00 50 Power tube t emp erature recovery valu e 80 normal

0 x A0

A0 00 50 Equalizing temperature protection value 80 normal

0 x A1

A1 00 46 Equilibrium temperature recovery value 70 normal

0 x A2

A2 00 14 Battery temperature difference protection value 20 ° normal

0 x A3

A3 00 64 Battery charging high t emperature protection value 100 normal

0 x A4

A4 00 64 Battery discharge high t emperature protection value 100 normal

0 x A5

A5 FF EC Chargin g lo w temp erature protection value – 20 normal

0 x A6

A6 FF F6 Recovery valu e o f charging lo w temp er atur e protection - 10 normal

0 x A7

A7 FF EC Discharge low temperature protection value – 20 normal

|  |  |  |  |
| --- | --- | --- | --- |
| 0 x A 8  A8 FF F6 | Recover y value o f discharge lo w t emp erature prote | ct ion – 10 | normal |
| 0 x A9 |  |  |  |
| A9 14 | Battery string number setting 20 |  | normal |
| 0 x AA |  |  |  |
| AA 00 00 00 28 | Battery cap acity settin g 40 AH |  | normal |
| 0 x AB |  |  |  |
| AB 00 | Charging MOS Switch Write Control Bit 0 Close 1 On | (Trigger) |  |
| 0xAC AC 00 | Discharge MOS Switch Write Control Bit 0 Close 1 On | (Trigger) |  |
| 0xAD  AD 03 E8 | Current Calibration 1000MA |  | Normal |
| 0 x AE |  |  |  |
| AE 01 | Protective Bo ard Addr ess Default 1 |  |  |
| 0 x AF |  |  |  |
| AF 01 | Battery Type Default Li- ion |  |  |
| 0 x B 0 |  |  |  |
| B0 00 0A | Hibernation wait time initialization default 10 seconds |  | normal |
| 0 x B 1 |  |  |  |
| B1 14 | Low capacity alarm 20% |  | normal |

0 x B 2

B2 00 00 00 00 00 00 00 00 00 00 Modify p arameter password default 0

0 x B 3

B3 01 Private Charger Switch Default 1 Normal

0 x B 4

B4 36 30 33 30 30 30 30 31 Device ID code in i t i al ization 60300001 nor mal

0 x B 5

B5 32 30 30 34 Factory Date 2004 Normal

0 x B 6

00 00 00 01 System wo rking t ime 1 min ute Normal

0xB7 地址

B7 4E 57 5F 31 5F 30 5F 30 5F 32 30 30 34 32 38 version number：NW\_ 1 \_ 0 \_ 0 \_ 200428

Normal