

## Communication protocol

### Voltage and current status inquiry

Query frame:

| Start code | address code | function code | starting address | Address length | Check code | End code |
|------------|--------------|---------------|------------------|----------------|------------|----------|
| D0         | D1           | D2            | D3               | D4             | D5D6       | D7       |
| F7         | 01           | 03            | 04               | 03             | Check code | FD       |

0xF7, 0x01, 0x03, 0x04, 0x03, 0xE2, 0xEA, 0xFD

F7 01 03 04 03 E2 E8 FD

Query response frame:

| Start code | Address code | function code | starting address | Address length | Data   | Check code | End code |
|------------|--------------|---------------|------------------|----------------|--------|------------|----------|
| D0         | D1           | D2            | D3               | D4             | D5-D10 | D11D12     | D13      |
| F7         | 01           | 03            | 04               | 03             | Data   | Check code | FD       |

**D5 D6 status code** **D7 D8 Voltage data** **D9 D10 Current data**

**D5** BIT0 CV 、 **BIT1** CC 、 **BIT5** OUTPUT

F7 01 0A 04 03 E2 E8 FD F7 01 0A 04 03 E2

**Setting voltage** F7 01 0A 09 01 02 02 D6 E2 FD

Set frame

| Start code | Address code | function code | starting address | Address length | Data | Check code | End code |
|------------|--------------|---------------|------------------|----------------|------|------------|----------|
| D0         | D1           | D2            | D3               | D4             | D5D6 | D7D8       | D9       |
| F7         | 01           | 0A            | 09               | 01             | Data | Check code | FD       |

**Voltage data**

**Setting current** F7 01 0A 0A 01 02 02 D6 A6 FD

Set frame

| Start code | Address code | function code | starting address | Address length | Data | Check code | End code |
|------------|--------------|---------------|------------------|----------------|------|------------|----------|
|------------|--------------|---------------|------------------|----------------|------|------------|----------|

|    |    |    |    |    |      |               |    |
|----|----|----|----|----|------|---------------|----|
| D0 | D1 | D2 | D3 | D4 | D5D6 | D7D8          | D9 |
| F7 | 01 | 0A | 09 | 01 | Data | Check<br>code | FD |

#### **D5 D6 Voltage Data**

Set the response frame (same as setting frame) F7 01 0A 09 01 02 02 D6 E2 FD

|               |                 |                  |                     |                   |       |               |          |
|---------------|-----------------|------------------|---------------------|-------------------|-------|---------------|----------|
| Start<br>code | Address<br>code | function<br>code | starting<br>address | Address<br>length | Data  | Check<br>code | End code |
| D0            | D1              | D2               | D3                  | D4                | D5 D6 | D7D8          | D9       |
| F7            | 01              | 0A               | 09                  | 01                | Data  | Check<br>code | FD       |

#### **Output switch setting**

Set Frame F7 01 0A 1E 01 00 01 92 37 FD

|               |                 |                  |                     |                   |      |               |          |
|---------------|-----------------|------------------|---------------------|-------------------|------|---------------|----------|
| Start<br>code | Address<br>code | function<br>code | starting<br>address | Address<br>length | Data | Check<br>code | End code |
| D0            | D1              | D2               | D3                  | D4                | D5D6 | D7D8          | D9       |
| F7            | 01              | 0A               | 1E                  | 01                | Data | Check<br>code | FD       |

Set the response frame (same as setting frame)