CANBUS Protocol V1.0

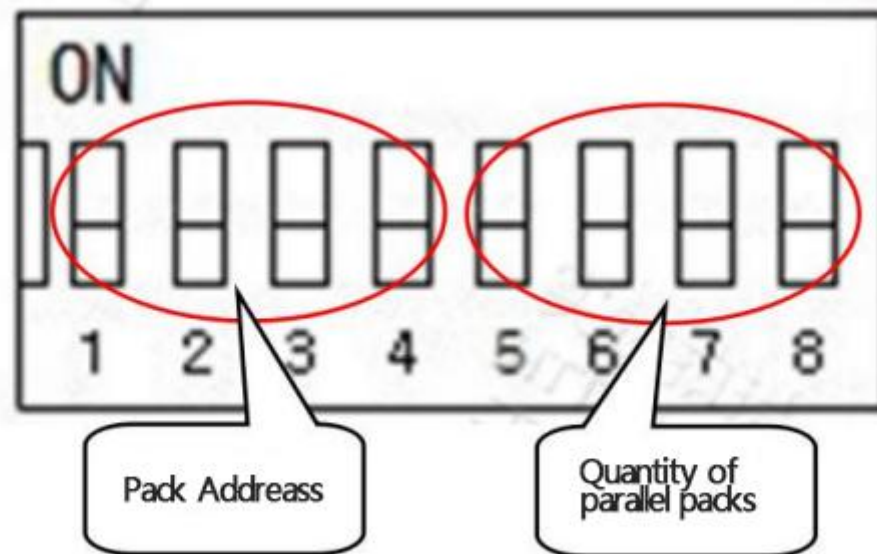Shenzhen Seplos Technology Co., LTD

CANBUS:

Standard frame, communication rate: 500kbps, data transmission cycle: 1s.

Inverter reply every second: 0x305: 00-00-00-00-00-00-00-00

Compatible protocols:

CANBUS Protocol compatible with Pylontech V1.3 and Goodwe V1.5.

Set DIP address for parallel packs

Slave pack address:

Address	DIP Switch				Remark
	#1	#2	#3	#4	
1	ON	OFF	OFF	OFF	PACK 1
2	OFF	ON	OFF	OFF	PACK 2
3	ON	ON	OFF	OFF	PACK 3
4	OFF	OFF	ON	OFF	PACK 4
5	ON	OFF	ON	OFF	PACK 5
6	OFF	ON	ON	OFF	PACK 6
7	ON	ON	ON	OFF	PACK 7
8	OFF	OFF	OFF	ON	PACK 8
9	ON	OFF	OFF	ON	PACK 9
10	OFF	ON	OFF	ON	PACK 10
11	ON	ON	OFF	ON	PACK 11
12	OFF	OFF	ON	ON	PACK 12
13	ON	OFF	ON	ON	PACK 13
14	OFF	ON	ON	ON	PACK 14
15	ON	ON	ON	ON	PACK 15

Master pack address:

Parallel packs	DIP Switch				Remark
	#5	#6	#7	#8	
2	ON	OFF	OFF	OFF	2 packs in parallel
3	OFF	ON	OFF	OFF	3 packs in parallel
4	ON	ON	OFF	OFF	4 packs in parallel
5	OFF	OFF	ON	OFF	5 packs in parallel
6	ON	OFF	ON	OFF	6 packs in parallel
7	OFF	ON	ON	OFF	7 packs in parallel
8	ON	ON	ON	OFF	8 packs in parallel
9	OFF	OFF	OFF	ON	9 packs in parallel
10	ON	OFF	OFF	ON	10 packs in parallel
11	OFF	ON	OFF	ON	11 packs in parallel
12	ON	ON	OFF	ON	12 packs in parallel
13	OFF	OFF	ON	ON	13 packs in parallel
14	ON	OFF	ON	ON	14 packs in parallel
15	OFF	ON	ON	ON	15 packs in parallel

CAN ID: 0X359

Byte 0	Protection - Table 1
Byte 1	Protection - Table 2
Byte 2	Warnings - Table 3
Byte 3	Warnings - Table 4
Byte 4	Quantity of packs in parallel
Byte 5	
Byte 6	
Byte 7	Online address of packs in parallel - Table 5

Table 1 Protection

Bit 0	
Bit 1	High voltage of battery
Bit 2	Low voltage of battery
Bit 3	Battery high temperature
Bit 4	Battery low temperature
Bit 5	
Bit 6	
Bit 7	Discharge over current

Table 2 Protection

Bit 0	Battery charge over current
Bit 1	
Bit 2	

Bit 3	
Bit 4	
Bit 5	
Bit 6	
Bit 7	

Table 3 Warnings

Bit 0	
Bit 1	Battery high voltage
Bit 2	Battery low voltage
Bit 3	Battery high temperature
Bit 4	Battery low temperature
Bit 5	
Bit 6	
Bit 7	Discharge over current

Table 4 Warnings

Bit 0	Charge over current of battery
Bit 1	
Bit 2	
Bit 3	Internal communication failure
Bit 4	Cell failure
Bit 5	
Bit 6	
Bit 7	

Table 5 Online address of pack in parallel

Bit 0	0 means DIP 0 out-of-line, 1 means DIP 0 online
Bit 1	0 means DIP 1 out-of-line, 1 means DIP 1 online
Bit 2	0 means DIP 2 out-of-line, 1 means DIP 2 online
Bit 3	0 means DIP 3 out-of-line, 1 means DIP 3 online
Bit 4	0 means DIP 4 out-of-line, 1 means DIP 4 online
Bit 5	0 means DIP 5 out-of-line, 1 means DIP 5 online
Bit 6	0 means DIP 6 out-of-line, 1 means DIP 6 online
Bit 7	0 means DIP 7 out-of-line, 1 means DIP 7 online

CAN ID: 0X351

Byte 0	Battery charge voltage, 16 bits unsigned int, Unit: 0.1V
Byte 1	
Byte 2	Charge current limit, 16 bits signed int, 2`s Byte 3Complement, Unit: 0.1A
Byte 3	

Byte 4	Discharge current limit, 16 bits signed int, 2`s Byte 3Complement, Unit: 0.1A
Byte 5	
Byte 6	Discharge voltage, 16 bits unsigned int, Unit: 0.1V
Byte 7	

CAN ID: 0X355

Byte 0	SOC of single module or average value of system
Byte 1	16 bits unsigned int, Unit: 1%
Byte 2	SOH of single module or average value of system
Byte 3	16 bits unsigned int, Unit: 1%
Byte 4	
Byte 5	
Byte 6	
Byte 7	

CAN ID: 0X356

Byte 0	Battery Voltage, 16 bits signed int, 2`s Complement, Unit: 0.01V
Byte 1	
Byte 2	Battery Current, 16 bits signed int, 2`s Complement, Unit: 0.1A
Byte 3	
Byte 4	Battery Temperature, 16 bits signed int, 2`s Complement, Unit: 0.1℃
Byte 5	
Byte 6	
Byte 7	

CAN ID：0x35C

Byte	Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
Byte 0	Table 5							

Table 5

Bit 0	
Bit 1	
Bit 2	
Bit 3	
Bit 4	Request force-charge II
Bit 5	Request force-charge I
Bit 6	Discharge-enable
Bit 7	Charge-enable

CAN ID: 0X70

Byte 0	Maximum cell temperature,
Byte 1	16bit signed int, unit :0.1degC

Byte 2	Minimum cell temperature,
Byte 3	16bit signed int, unit :0.1degC
Byte 4	Maximum cell voltage,
Byte 5	16bit signed int, unit :0.1degC
Byte 6	Minimum cell voltage,
Byte 7	16bit signed int, unit :0.1degC

CAN ID: 0X371

Byte 0	Maximum cell temperature ID
Byte 1	16bit signed int, unit :NA
Byte 2	Minimum cell temperature ID
Byte 3	16bit signed int, unit :NA
Byte 4	Maximum cell voltage ID
Byte 5	16bit signed int, unit :NA
Byte 6	Minimum cell voltage ID
Byte 7	16bit signed int, unit :NA

CAN ID: 0X35E

Byte 0	Manufacturer	Energy	ASCII
Byte 1			

Note: Data 0 means low bytes. Data 1 means high bytes.