ELCON CAN 3865 Specification

Operation Mode:

1. The BMS sends the operating message (message 1) to the charger at a fixed interval of one second. The charger will work according to the voltage and current from the received message. The charger will switch off with communication failure error if it doesn't receive a CAN message for five seconds.
2. The charger sends the broadcast message (message 2) at a fixed interval of one second. The display meter (if connected) will show the charger status according to the up-to-date information.

CAN Protocol Num.	CAN-XXXX		
CAN Baud Rate	250K		
Cycle (ms)	1000		
	Send Out	**Receive**	**CAN ID**
Charger 1	BMS	Charger	0x1806E5F4
	Charger	BMS	0x18FF50E5
Charger 2	BMS	Charger	0x1806E7F4
	Charger	BMS	0x18FF50E7
Charger 3	BMS	Charger	0x1806E8F4
	Charger	BMS	0x18FF50E8

Message 1: BMS **Send Out**, Charger **Receive**

Data		
Position	Data Name	
BYTE1	Max allowable charging terminal voltage high byte	0.1V/bit, offset: 0, e.g: Vset =3201, corresponding voltage is 320.1v
BYTE2	Max allowable charging terminal voltage low byte	
BYTE3	Max allowable charging current high byte	0.1A/bit, offset: 0, e.g: Iset =582, corresponding current is 58.2A
BYTE4	Max allowable charging current low byte	
BYTE5	Control	0: Charger is starting up to charge 1: Battery protection, charger close output
BYTE6	Working status control	0: Charging mode 1: Heating mode
BYTE7	Reserved	
BYTE8	Reserved	

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Message 2: Charger **Send Out**, BMS **Receive**

Data		
Position	Data Name	
BYTE1	Output voltage high byte	0.1V/bit, offset: 0, e.g: Vout =3201, corresponding voltage is 320.1v
BYTE2	Output voltage low byte	
BYTE3	Output current high byte	0.1A/bit, offset: 0, e.g: Iout =582, corresponding current is 58.2A.
BYTE4	Output current low byte	
BYTE5	STATUS flags	
BYTE6	Temp	1□/bit internal temperature, offset: 100, e.g: 150, its corresponding temperature is 50 degree
BYTE7	Input voltage	2V/bit Offset:0 e.g: V_Input=110, its corresponding actual voltage is 220V
BYTE8	Input current	1A/bit Offset:0 e.g: I_Input=15, its corresponding actual current is 15A

STATUS	Mark	Description
Bit0	Hardware failure	0: Normal 1: Failure
Bit1	Temperature of charger	0: Normal 1: Protection against over-temperature
Bit2	Input voltage	0: Input voltage normal 1: Stop working because of input voltage abnormal
Bit3	Battery polarity status	0: Battery polarity connection correct 1:Battery polarity disconnection or reverse connection
Bit4	Communication status	0: Normal 1: Communication receiving time-out
Bit5		
Bit6		
Bit7		