Global BMS Values

DEYE PCSCAN

22.02.2025 21:40

CAN ID	Function	Byte 0	Byte 1	Byte 2	Byte 3	Byte 4	Byte 5	Byte 6	Byte 7
0x351	voltage and current limits	charge voltage limit max_battery_voltage_bms		charge current limit off-grid max_battery_charge_current		discharge current limit off-grid max_battery_discharge_current		discharge voltage limit min_battery_voltage_bms	
0x355	SOC and SOH	SOC soc		SOH soh					
0x356	Modules average data	average module voltage voltage		average module current current		average cell temperature temperature_1			
0x358	USB board	USB total power		USB total energy					USB board switch status
0x35E	Battery data	Manufacturer name type		Battery pack number type			Battery type type	Battery nominal capacity capacity	
0x361	min max cell data	maximal cell voltage cell_max_voltage		minimal cell voltage cell_min_voltage		maximal cell temperature temperature_2		minimal cell temperature temperature_3	
0x363	software hardware vers.	software version custom_feld		hardware version hardware_version					
0x364	Module statistics	№ of batteries in normal operation	№ of modules that are prohibited from charging	№ of modules that are prohibited from discharging	№ of modules with communication disconnection	№ of modules successfully connected in parallel			
0x371	Current limits on-grid	charging current limit on-grid		discharging current limit on-grid					

	required
	nice to have
	not used

Global Err Warn Alm Stat

DEYE PCSCAN

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CAN ID: 0x359 **Errors, Warnings, Alarms, Status**

	DEYE Naming	Domain		Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
Byte 0	Protection	Cell_Module	warning	cell temperature during charging too low warning protection.low charge temperature = 1	cell temperature during charging too high warning protection.high charge temperature = 1	Discharge current too high warning protection.high discharge current = 1	Charge current too high warning protection.high charge current = 1	module undervoltage warning protection.low voltage = 1	module overvoltage warning protection.high voltage = 1	cell undervoltage warning protection.low cell voltage = 1	cell overvoltage warning protection.high cell voltage = 1
Byte 1	Protection	MOS_Cell_AFE	error/warning	AFE-OCD2 protection.internal failure = 2	AFE-OCD1 protection.internal failure = 2	heating film temperature too high warning protection.high internal temperature = 1	MOSFET temperature too high warning protection.high internal temperature = 1	cell temperature difference to high warning protection.high internal temperature = 1	cell voltage difference to high warning protection.cell imbalance = 1	cell temperature during discharging too low warning protection.low temperature = 1	cell temperature during discharging too high warning protection.high temperature = 1
Byte 2	Protection	AFE	error	AFE-SCDL protection.internal failure = 2	AFE-OT protection.internal failure = 2	AFE-UT protection.internal failure = 2	AFE-SCD protection.internal failure = 2	AFE-OCC protection.internal failure = 2	AFE-OCDL/OCD1/OCD2 protection.internal failure = 2	AFE-OV protection.internal failure = 2	AFE-UV protection.internal failure = 2
Byte 3	Protection	Computation	error	Duplicate Host address protection.internal failure = 2	PCS Communication failure protection.internal failure = 2	Internal Communication failure protection.internal failure = 2	EEPROM fault protection.internal failure = 2	MOSFET Short Circuit protection.internal failure = 2	Temperature Sampling Failure protection.internal failure = 2	Cell voltage sampling failure protection.internal failure = 2	AFE communication failure protection.internal failure = 2
Byte 4	Protection	Cell_Module	alarm/error	cell temperature during charging too low alarm protection.low charge temperature = 2	cell temperature during charging too high alarm protection.high charge temperature = 2	discharge current too high alarm protection.high discharge current = 2	charge current too high alarm protection.high charge current = 2	module undervoltage alarm protection.low voltage = 2	module overvoltage alarm protection.high voltage = 2	cell undervoltage alarm protection.low cell voltage = 2	cell overvoltage alarm protection.high cell voltage = 2
Byte 5	Protection	Temp_MOS	alarm/error	Heating error protection.internal failure = 2	Heating MOSFET bonding protection.internal failure = 2	heating film temperature too high alarm protection.high internal temperature = 2	MOSFET temperature too high alarm protection.high internal temperature = 2	cell temperature difference to high alarm protection.high internal temperature = 2	cell voltage difference to high alarm protection.cell imbalance = 2	cell temperature during discharging too low alarm protection.low temperature = 2	cell temperature during discharging too high alarm protection.high temperature = 2
Byte 6	System Error	System	error	charging voltage too low protection.internal failure = 2	Temperature disconnection fault protection.internal failure = 2	Voltage disconnection fault protection.internal failure = 2	FUSE blown protection.fuse blown = 2	Terminal overtemperature protection protection.high internal temperature = 2	Reverse charging protection.internal failure = 2	Precharge failed protection.internal failure = 2	Connector overtemperature protection protection.high internal temperature = 2
Byte 7	Not enabled										

CAN ID: 0x35C **Status**

	DEYE Naming	Domain		Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
Byte 0	Status	Battery	status	charge enable charge fet = 1	discharge enable discharge fet = 1	request force charge I	request force charge II	request full charge			request heating (banned)

	error
	warning
	status

Bat Values

DEYE PCSCAN

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CAN ID	Function	Byte 0	Byte 1	Byte 2	Byte 3	Byte 4	Byte 5	Byte 6	Byte 7
0x150	volt., curr., SOC, SOH	total battery voltage		battery current		SOC		SOH	
0x200	min max cell data	maximal cell voltage		minimal cell voltage		maximal cell temperature		minimal cell temperature	
0x250	Temps and currents	maximal MOSFET temperature `temperature_mos`		heating film temperature `temperature_4`		maximal charging current		maximal discharging current	
0x400	System status	system operation mode `charge_fet, discharge_fet`	system failure level	cycle times `history.charge_cycles`		balancing state cells 1-8 `balance_fet, cells_balance`	balancing state cells 9-16 `balance_fet, cells_balance`	system sub state	
0x500	Battery data	software version `custom_field`		0xAA	boot version ASCII `custom_field`				
0x550	Energy	total charged energy `history.charged_energy`				total discharged energy `history.discharged_energy`			
0x600	Bat. pack serial number 1-8	battery pack serial number ASCII (Part 1 of 2) `serial_number`							
0x650	Bat. pack serial number 9-16	battery pack serial number ASCII (Part 2 of 2) `serial_number`							
0x700	Number of faults	number of high voltage alarms (charging) `history.high_voltage_alarms`		number of low voltage alarms (discharging) `history.low_voltage_alarms`		number of short circuit alarms		number of overtemperature alarms	
0x750	Number of faults	number of charge overcurrent alarms		number of discharge overcurrent alarms		number of charge overtemperature alarms		number of discharge overtemperature alarms	

	required
	nice to have
	not used

Bat Err Warn Alm Stat

DEYE PCSCAN

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CAN ID: **0x110** **Errors, Warnings, Alarms, Status**

	DEYE Naming	Domain		Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
Byte 0	Protection	Cell_Module	warning	cell temperature during charging too low warning protection.low charge temperature = 1	cell temperature during charging too high warning protection.high charge temperature = 1	Discharge current too high warning protection.high discharge current = 1	Charge current too high warning protection.high charge current = 1	module undervoltage warning protection.low voltage = 1	module overvoltage warning protection.high voltage = 1	cell undervoltage warning protection.low cell voltage = 1	cell overvoltage warning protection.high cell voltage = 1
Byte 1	Protection	MOS_Cell_AFE	error/warning	AFE-OCD2 protection.internal failure = 2	AFE-OCD1 protection.internal failure = 2	heating film temperature too high warning protection.high internal temperature = 1	MOSFET temperature too high warning protection.high internal temperature = 1	cell temperature difference to high warning protection.high internal temperature = 1	cell voltage difference to high warning protection.cell imbalance = 1	cell temperature during discharging too low warning protection.low temperature = 1	cell temperature during discharging too high warning protection.high temperature = 1
Byte 2	Protection	AFE	error	AFE-SCDL protection.internal failure = 2	AFE-OT protection.internal failure = 2	AFE-UT protection.internal failure = 2	AFE-SCD protection.internal failure = 2	AFE-OCC protection.internal failure = 2	AFE-OCDL/OCD1/OCD2 protection.internal failure = 2	AFE-OV protection.internal failure = 2	AFE-UV protection.internal failure = 2
Byte 3	Protection	Computation	error	Duplicate Host address protection.internal failure = 2	PCS Communication failure protection.internal failure = 2	Internal Communication failure protection.internal failure = 2	EEPROM fault protection.internal failure = 2	MOSFET Short Circuit protection.internal failure = 2	Temperature Sampling Failure protection.internal failure = 2	Cell voltage sampling failure protection.internal failure = 2	AFE communication failure protection.internal failure = 2
Byte 4	Protection	Cell_Module	alarm/error	cell temperature during charging too low alarm protection.low charge temperature = 2	cell temperature during charging too high alarm protection.high charge temperature = 2	discharge current too high alarm protection.high discharge current = 2	charge current too high alarm protection.high charge current = 2	module undervoltage alarm protection.low voltage = 2	module overvoltage alarm protection.high voltage = 2	cell undervoltage alarm protection.low cell voltage = 2	cell overvoltage alarm protection.high cell voltage = 2
Byte 5	Protection	Temp_MOS	alarm/error	Heating error protection.internal failure = 2	Heating MOSFET bonding protection.internal failure = 2	heating film temperature too high alarm protection.high internal temperature = 2	MOSFET temperature too high alarm protection.high internal temperature = 2	cell temperature difference to high alarm protection.high internal temperature = 2	cell voltage difference to high alarm protection.cell imbalance = 2	cell temperature during discharging too low alarm protection.low temperature = 2	cell temperature during discharging too high alarm protection.high temperature = 2
Byte 6	System Error	System	error	charging voltage too low protection.internal failure = 2	Temperature disconnection fault protection.internal failure = 2	Voltage disconnection fault protection.internal failure = 2	FUSE blown protection.fuse blown = 2	Terminal overtemperature protection protection.high internal temperature = 2	Reverse charging protection.internal failure = 2	Precharge failed protection.internal failure = 2	Connector overtemperature protection protection.high internal temperature = 2
Byte 7	Status	BMS	status	heating MOSFET status	precharge MOSFET status	discharge MOSFET status	charge MOSFET status				parallel finish

	error
	warning
	status