

C&I Storage **BCU**



| Functional Description

- Real-time monitoring of battery terminal voltage, current, temperature and insulation resistance;
- Real-time calculation of the SOC, SOH, and SOE of the entire battery pack;
- The module has wet contact, dry contact output, switch input detection interface, etc;
- The module has CAN and RS485 communication interfaces, which can receive and upload data and alarm information in real time and monitor the battery pack remotely;
- Support fault detection function, which can alarm according to thresholds such as voltage, current, temperature, SOC, SOH, and circuit cut-off protection function at the extreme alarm threshold;
- Supports Bootloader upgrade or remote upgrade, and can also be upgraded online via CAN bus;
- Modular design makes installation, use and maintenance easy, and the modules are isolated from each other, which ensures high reliability;
- Support CAN, RS-485, and Ethernet communication functions to achieve information interaction;

Product Parameters

Main technical parameters		Minimum	Typical values	Maximum	Unit	Remark
Working power supply		9		32	Vdc	
Power output			5/300		Vdc/mA	
			12/300		Vdc/mA	
Group terminal voltage acquisition	Acquisition range	0		1500	Vdc	
	Acquisition accuracy			±0.5%		
Current acquisition	Acquisition range	0		±500	A	
	Acquisition accuracy			±0.5%		
Temperature sampling	Temperature range	-40		125	℃	
	Number of acquisition channels			64	Channel	
	Acquisition accuracy		±1		℃	
Insulation resistance	Acquisition range	0		10	MΩ	
	Acquisition accuracy		15%			
Digital input signal	Number of channels			8	Route	
	Input voltage value	0		32	Vdc	
Digital output signal	Number of channels			8	Route	
	Input voltage value	0		32	Vdc	
CAN	Number of channels			3	Route	CAN1 and CAN2 are isolated communications
	Rate	125	250	500	Kb/S	
LIN	Number of channels		1			
	Rate		10/100		Mb/S	
485	Number of channels		1			Isolation
	Rate	1200	9600	115200	bps	



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