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Battery Management System

BMS12(BCU12+BMU16)





ProductOverview

Introducing the newly developed hierarchical daisy chain BMS; it is a daptable to the number of stacked modules and offershighst ability at a lower cost.

Highprecisionmonitoring, highreliablecommunication

- Reducingsystemoperatingcosts
- Highlyadaptablemodularcompact batterysystems
- **Enhancingsystemprofitability**
- Accuratesystemoperationstrategy

 Improving the utilization rate of energy storage battery system



Model	BMS12 (BCU12 + BMU12) Parameters
Operating voltage grade	≤500Vdc
Combination mode	1 * Bus control unit (BCU 12)+ n* Battery management unit (BMU 12); n <ll< td=""></ll<>
Certification & Safety Standards	GB/T 34131-2017、IEC 60730-1 &IEC 61508
Bus control unit (BCU 12)	
Supply voltage	24Vdc(12~36Vdc)
Sampling channel	2-Way (Hall + Shunt)
Sampling range	-100A~+100A(configurable)
Sampling accuracy	\pm (0.1% FS +0.1% RD)(accuracy is related to the accuracy of Hall and shunt)
Sampling cycle	≤100ms
Sampling channel	2-way
Sampling range	0~500Vdc(configurable)
Sampling accuracy	±(0.5%FS +0.5%RD)
Sampling cycle	≤100ms
DO	5-way relay normally-open output, 2-way optocoupler output
DI	5-way
Communication Interface	RS485*2/CAN2.0*2
Self-consumption	≤3W
Event Log Database	500 event records, including the type of exception, time of occurrence, protection action
Constant database	Store all the last 30 days of abnormal voltage/current/temperature/time information
Battery management unit (BMU 12)	
Supply voltage	24Vdc(9~36Vdc)
Equalization Type	Passive equalization
Equalization current	≤ 150 mA (configurable)
Sampling channel	8-way
Sampling range	-40~120°C
Sampling accuracy	+1°C
Sampling cycle	≤100ms
Sampling channel	12-way
Sampling range	0~5V
Sampling accuracy	±3mV
Sampling cycle	≤600ms
Operating Mode	<0.5W
Hibernation Mode	<0.1W
	CAN2.0*1

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Project	BMS12 (BCU12 + BMU12) Parameters
Operating voltage grade	≤1000Vdc
Combination mode	1 * Bus control unit (BCU 16)+ n* Battery management unit (BMU 16);nW17
Certification & Safety Standards	GB/T 34131-2017、IEC 60730-1 &IEC 61508
Bus control unit (BCU 16)	
Supply voltage	24Vdc(12~36V)
Sampling channel	2-Way (Hall + Shunt)
Sampling range	-100A~+100A(configurable)
Sampling accuracy	\pm (0.5%FS + 0.1%RD)(accuracy is related to the accuracy of Hall and shunt)
Sampling cycle	≤600ms
Sampling channel	2-way
Sampling range	0~1000Vdc
Sampling accuracy	±(0.5%FS+0.5%RD)
Sampling cycle	≤600ms
DO	8-way
DI	8-way
Communication Interface	IOspi * 2, CAN2.0 * 2, RS485 * 2, WiFi * l, Ethernet * 1
Self-consumption	≤ 2.5W (DO no output)
Event Log Database	500 event records, including the type of exception, time of occurrence, protection action
Constant database	Store all the last 30 days of abnormal voltage/current/temperature/time information
Battery management unit (BMU 16	
Supply voltage	Battery power/external power 24Vdc (9 ~ 36 Vdc)
Equalization Type	Passive equalization
Equalization current	≤150mA (configurable)
Sampling channel	8-way
Sampling range	-40~125°C
Sampling accuracy	±1°C
Sampling cycle	≤100ms
Sampling channel	16-way
Sampling range	0~5V
Sampling accuracy	+3mV
Sampling cycle	≤600ms
Operating Mode	<0.3W(DO no output, no equalization)
Hibernation Mode	<0.05W(DO no output, no equalization)
Number of Do Channels	1-way
Communication Interface	lOspi (daisy chain)* 2

