

M12 Modular BMS

The M12 Battery Management System produced by SCE is a Master-Slave modular system with a central unit (BCU) and one or more control units (BMU): it allows the management from a minimum of 4 up to a maximum of 144 cells.

TECHNICAL FEATURES

	BCU	
Dimensions (LxDxH)	190x102x29,5 mm	...
Weight	280 g	...
Case	Aluminium	...
Class Protection	IP20	...
Working Temperature	-20 ÷ +75°C	...
Humidity	5 - 95% relative humidity	...
Power supply	10 ÷ 15Vdc	...
Interface	CAN-BUS/supply/enable logical input	...
Watchdog	software	...
Input	PNP 12Vdc	· X1 - Charge Presence · X2 - Auxiliary Input · X3 - Auxiliary Input · X4 - Auxiliary Input
Static Output	MOSFET bidir 12Vdc 300mA max	· Y5 - Multifunction Output · Y6 - Multifunction Output
PNP static outputs	12Vdc 1A max	· Y1 - Run Relay · Y2 - Charge Relay · Y3 - Safety Relay · Y4 - Precharge Relay
PWM Output signal	push-pull/open collector 12Vdc	PWM battery charger interface
Current Input for sensors	0-5V analog	ADC1 - ADC2 - Current Sensor ADC3 - Aux
Communication Interface	Ethernet 10/100 Mb/s USB slave RS-485 CAN-BUS	Log parameters, log errors, log settings excange
Other functions	watch log parameters log errors graphics	...

	BMU
Dimensions (DxPxH)	190x111x29,5 mm
Weight	320 g
Case	aluminum
Protection degree	IP20
Working temperature	-20 ÷ +75°C

Humidity	5 - 95% relative humidity
Power supply	directly from cells voltage
Minimum number of connected cells	4
Temperature sensors inside the module	3
Watchdog	4
Equalization resistors	up to 12 (depends on BMU)
Interface to BCU module	CAN-BUS/ interface power supply /abilitation output
Auxiliary output	1 (300mA)
Passive cell balance	1A Max
Number of inputs for cell temperatures	6
Temperature measurement range	-20 +80°C
Number of inputs for cell voltage	12
Measurement range of cell voltages	0,8 - 4,4V

PRODUCT DETAILS



INFORMATION REQUEST

Do you have doubts or need more information? Write to web@sce.it

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