Hybrid Power

MCU-G9

- Innovative in energy storage & Power Electronics
- Custom-made solutions
- Complete solution: storage & Power Electronics
- Design and system integration

Features

- CAN interface
- 1x RS232 interface
- Monitoring up to 32 modules
- String balancing
- Diagnostic interface

Applications

- Monitoring of ultracapacitor energy storage
- Monitoring control unit for cell pack V2

Mechanical Data

Length x Width x Height
105 x 110 x 186 mm
Approx. 1 kg

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Hybrid Power

Technical Characteristics

Symbol	Parameter	Description	Value	Unit
	Supply power			
U_{24}	Control voltage		24	VDC
I_{24}	Control current	at U_{24} = 24V	200	mA
	Communication			
	Data	RS232 (diagnostic interface)		
	Data	CAN1 (customer interface)		
	Data	CAN2 (free)		
	Data	Fiber optics (Rx and Tx)		
	Insulation voltage			
	U_{24} – RS232		50	VDC
	U_{24} – CAN1		50	VDC
	U_{24} – CAN2		50	VDC
	Environment			
	Operational temperature		-20 to 50	°C
	Storage temperature		-40 to 85	°C
	IP rate		IP20	
	Mechanical data			
	Weight		1	kg
	Width	Housing (without mounting brackets)	105	mm
	Height	Housing (without mounting brackets)	110	mm
	Length	Housing (without connector)	186	mm

Dimensions

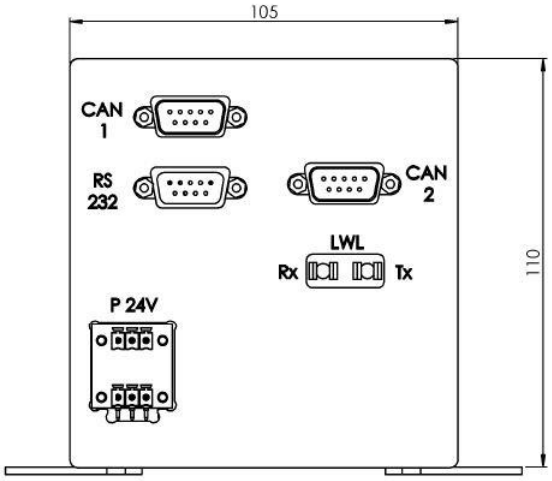

Figure 1: Front view

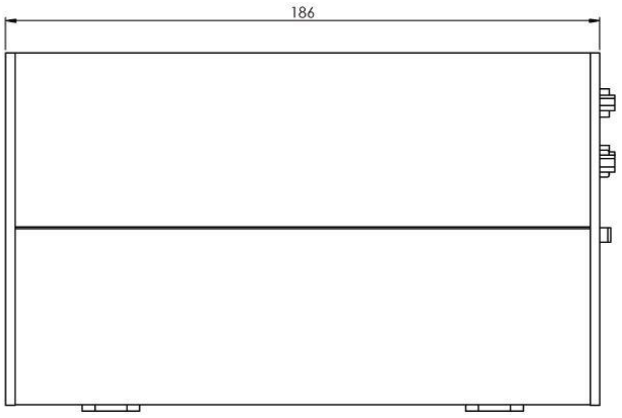

Figure 2: Side view

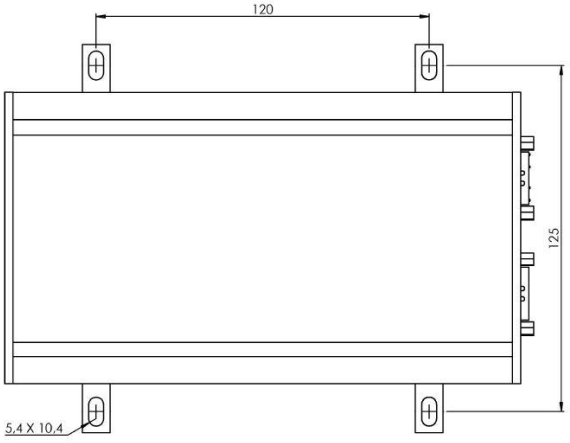

Figure 3: Top view

Connectors

Supply:
Connector: P24V

Pin	Signal	Description
1, 4	M24	Ground 24V
2, 5	P24	Supply 24V
3, 6	PE	PE

Figure 4: Pin layout

Communication

Connector: RS232 SUB-D 9 polig standard

Pin	Signal	Description
2	TxD	
3	RxD	
5	GND_RS232	

Connector: CAN1

Pin	Signal	Description
2	CAN1-L	
3	CAN1-GND	
7	CAN1-H	

Connector: CAN2

Pin	Signal	Description
2	CAN2-L	
3	CAN2-GND	
7	CAN2-H	

Connector: Fiber Optics

Pin	Signal	Description
Rx	Fiber optics receiver	
Tx	Fiber optics transmitter	