



CATALOG

2024

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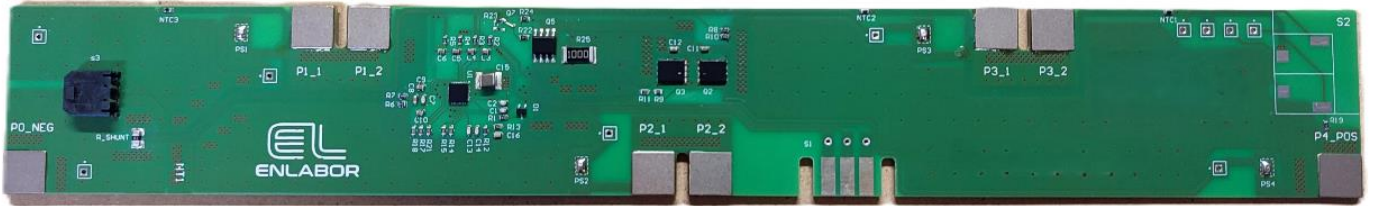
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BMS

EASY B1



Overview

EASY B1 is a **high performance, low cost** and **low consumption** Battery Management System (BMS). It is **made in Italy**, and it is designed to optimize the performance and extend the lifespan of Lithium batteries. It monitors and manages critical battery parameters like voltage, current, and temperature to ensure safe and efficient operation.

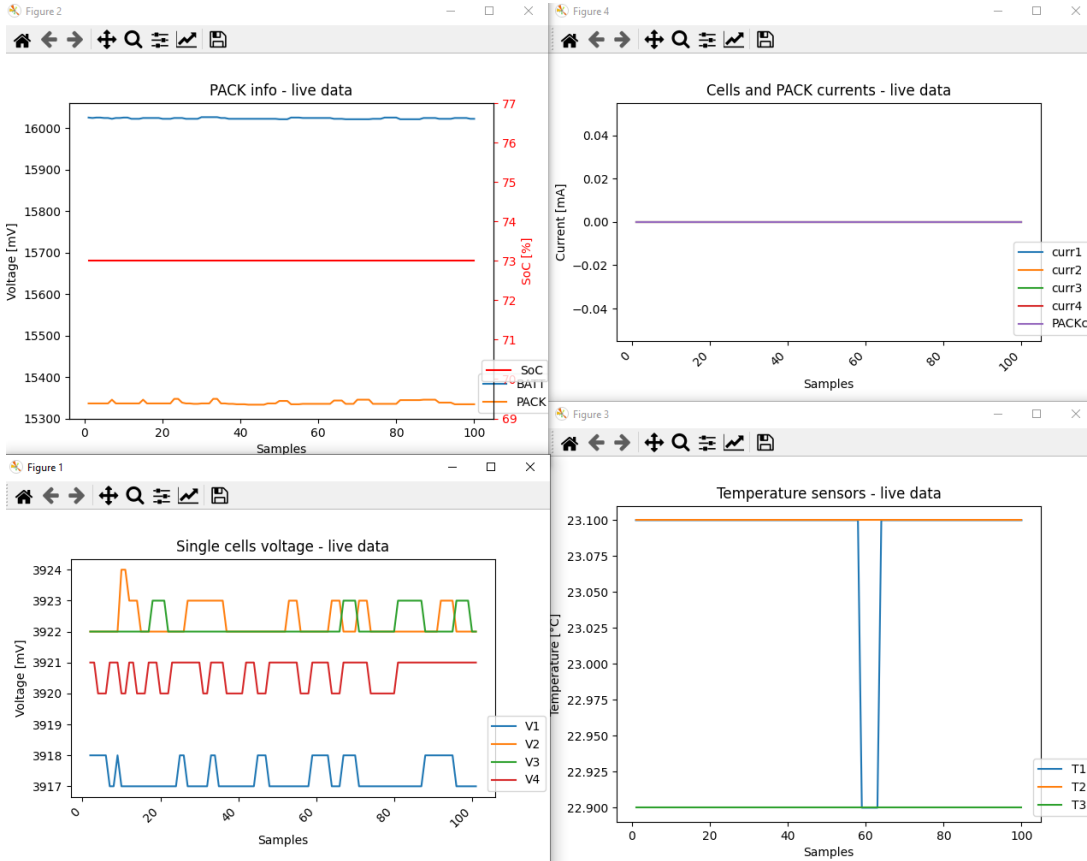
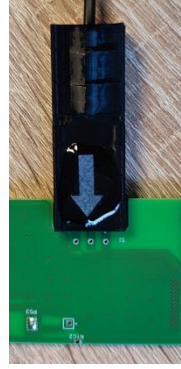
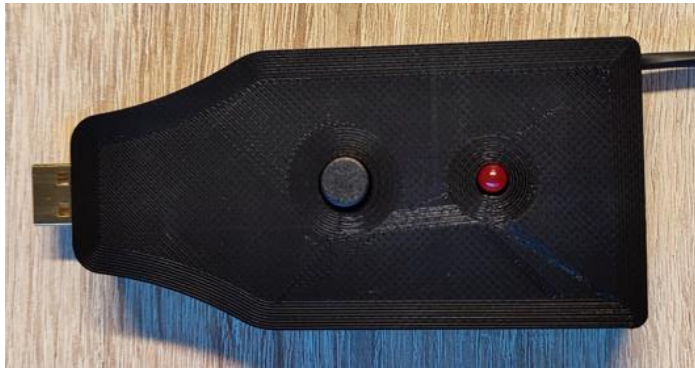
Customizable Key Features

- Real-time monitoring of battery **State of Charge (<1% error)** and **State of Health**.
- Automatic **balancing** of battery cells.
- Over-voltage, over-current, and over-temperature protection.
- **Short circuit protection** (triggers in less than 61 μ s).
- Safety-ensuring fault detection.
- Data logging and fault diagnostics.
- I2C data communication.
- Battery and other key information shown by LEDs.
- On-board pre-charge and pre-discharge.
- Possibility to have a direct connection between the cells and BMS using nickel strip (no need of additional cables, soldering or connectors).
- Parameters customizable directly by the client through the **INTERFACE_BOARD**.

Technical Specifications

- Voltage range: 5 to 25.2 V
- Capacity: typical up to 50Ah (customizable up to 300Ah)
- Current: up to 30 A (8 A with connector shown above)
- Operating temperature: -20 to 60°C
- Cell configuration: 2s to 6s (above a 4s example)
- Power consumption: 90 μ A.
- Selectable chemistry: li-ion, li-polymer, LFP.
- Selectable specific cell type between a wide library of standard cells.
- Dimensions: customizable size and shape (287 x 40 x 8 [mm] for the 4s example).

Diagnostic Interfaces



Prices

The prices shown below must be considered only indicative, since they depend on the final configuration that the client decides to create and order:

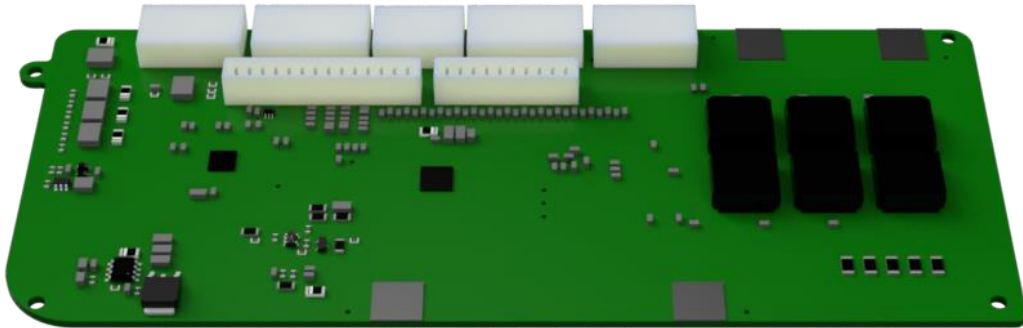
ARTICLE CODE	DESCRIPTION	QUANTITY	PRICE [€] PER UNIT
EASY B1	BMS EASY B1 + 1 free INTERFACE BOARD	1000 or above	19.00
	BMS EASY B1 + 1 free INTERFACE BOARD	500 to 1000	25.00
	BMS EASY B1 + 1 free INTERFACE BOARD	100 to 500	30.00
	BMS EASY B1	50 to 100	35.00
	BMS EASY B1	10 to 50	40.00
	BMS EASY B1	1 to 10	50.00

For **more than 2000 pieces** get a specific **quotation**.

Payment terms: 30 DAYS PAYMENT

Delivery time: 6 weeks from order confirmation.

EASY B2



Overview

EASY B2 is a **high performance** and **low consumption** Battery Management System (BMS) capable of 10 to 16 cells series connection and monitoring. It is **made in Italy**, and it is designed to optimize the performance and extend the lifespan of Lithium batteries. It monitors and manages critical battery parameters like voltage, current, and temperature to ensure safe and efficient operation.

Customizable Key Features

- Real-time monitoring of battery **State of Charge (<1% error)** and **State of Health**.
- Automatic **balancing** of battery cells.
- Over-voltage, over-current, and over-temperature protection.
- **Short circuit protection** (triggers in less than 15 μ s).
- Safety-ensuring fault detection.
- Data logging and fault diagnostics.
- CAN communications.
- Battery and other key information shown by LEDs.
- On-board pre-charge and pre-discharge.
- Parameters customizable directly by the client through the **INTERFACE_BOARD**.
- 6 I/O ports analog/digital.
- 4 power outputs at 2A for additional control over your system.

Technical Specifications

- Voltage range: 20 to 58.8V.
- Capacity: typical up to 50Ah (customizable up to 300Ah).
- Current: up to 200A peak current; up to 100A continuous current.
- Operating temperature: -20 to 60°C.
- Cell configuration: 10s to 14s.
- Power consumption: 300 μ A.
- Selectable chemistry: li-ion, li-polymer, LFP.

- 6 I/O ports analog/digital
- 4 power outputs at 2A for additional control over your system
- Selectable specific cell type between a wide library of standard cells.
- Dimensions: 186 x 77 x 8 [mm]

Model	Continuous current
EASY B2	Up to 100 A
EASY B2.1	Up to 50 A

Prices

The prices shown below must be considered only indicative, since they depend on the final configuration that the client decides to create and order:

ARTICLE CODE	DESCRIPTION	QUANTITY	PRICE [€] PER UNIT
EASY B2	BMS EASY B2 + 1 free INTERFACE BOARD	1000 or above	68.00
	BMS EASY B2 + 1 free INTERFACE BOARD	500 to 1000	75.00
	BMS EASY B2 + 1 free INTERFACE BOARD	100 to 500	85.00
	BMS EASY B2	50 to 100	100.00
	BMS EASY B2	10 to 50	130.00
	BMS EASY B2	1 to 10	145.00
ARTICLE CODE	DESCRIPTION	QUANTITY	PRICE [€] PER UNIT
EASY B2.1	BMS EASY B2.1 + 1 free INTERFACE BOARD	1000 or above	45.00
	BMS EASY B2.1 + 1 free INTERFACE BOARD	500 to 1000	50.00
	BMS EASY B2.1 + 1 free INTERFACE BOARD	100 to 500	55.00
	BMS EASY B2.1	50 to 100	70.00
	BMS EASY B2.1	10 to 50	80.00
	BMS EASY B2.1	1 to 10	89.00

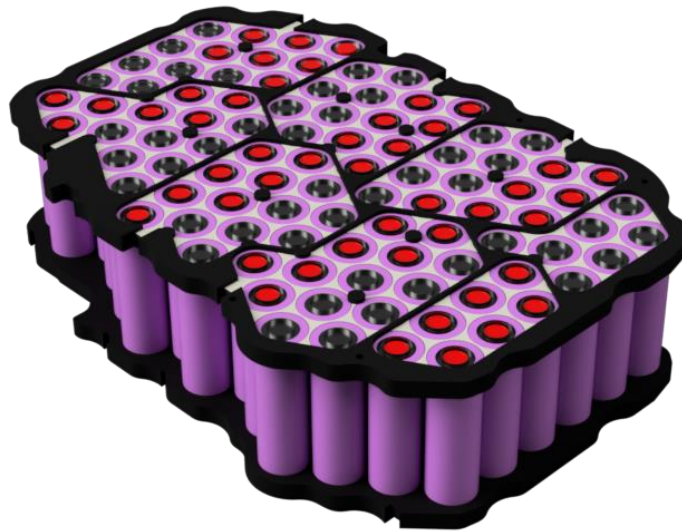
For more than 2000 pieces get a specific quotation.

Payment terms: 30 DAYS PAYMENT

Delivery time: 6 weeks from order confirmation.

BATTERY ASSEMBLED

ENERG 1K8



Overview

ENERG 1K8 is a **powerful 58.8V, 1.8kWh** battery pack made with 21700 cells in a 14S configuration, delivering reliable high-energy output for demanding applications. Designed without a BMS, it allows for flexible integration with external monitoring systems. Perfect for e-mobility, solar, or DIY power projects seeking efficient, customizable energy solutions in a compact form.

Technical Specifications

- Cells configuration: 14S7P
- Nominal voltage: 51.8V
- Max voltage: 58.8V
- Min voltage: 35V
- Capacity Ah: 30Ah
- Capacity: 1813Wh
- Max discharge current: 2C (60A)
- Max charge current: 1C (30A)
- It can be delivered with all the single cells voltage connections and temperature sensors.
- Weight: 8 kg
- Dimensions: 290 x 205 x 74 [mm]

Prices

The prices shown below must be considered only indicative, since they depend on the final configuration that the client decides to create and order:

ARTICLE CODE	DESCRIPTION	QUANTITY	PRICE [€] PER UNIT
ENERG 1K8	BATTERY PACK	1000 or above	500.00
	BATTERY PACK	500 to 1000	550.00
	BATTERY PACK	100 to 500	630.00
	BATTERY PACK	50 to 100	690.00
	BATTERY PACK	10 to 50	750.00
	BATTERY PACK	1 to 10	850.00

For **more than 2000 pieces** get a specific **quotation**.

Payment terms: 30 DAYS PAYMENT

Delivery time: 6 weeks from order confirmation.

BATTERY PACK

COMPL 1K8



Overview

COMPL 1K8 is a **robust, integrated battery solution** combining a high-capacity **58.8V, 1.8kWh** battery pack and the **EASY B2** Battery Management System (BMS) for optimal performance and safety. Built with high-density 21700 cells in a 14S configuration, COMPL 1K8 offers reliable energy output tailored for high-demand applications, including e-mobility, solar, and DIY power setups. The integrated EASY B2 BMS actively monitors voltage, current, and temperature to extend battery lifespan, ensure safe operation, and maximize efficiency. **Made in Italy**, COMPL 1K8 is the ideal choice for a powerful, low-maintenance, and flexible energy solution.

Customizable Key Features

- Real-time monitoring of battery **State of Charge (<1% error)** and **State of Health**.
- Automatic **balancing** of battery cells.
- Over-voltage, over-current, and over-temperature protection.
- Short circuit protection (triggers in less than 15 μ s).
- Safety-ensuring fault detection.
- Data logging and fault diagnostics.
- CAN communications.
- Battery and other key information shown by LEDs.
- On-board pre-charge and pre-discharge.
- Parameters customizable directly by the client through the INTERFACE_BOARD.

Technical Specifications

- Cells configuration: 14S7P
- Nominal voltage: 51.8V
- Max voltage: 58.8V
- Min voltage: 35V
- Capacity Ah: 30Ah
- Capacity Wh: 1813Wh
- Max discharge current: 2C (60A)
- Max charge current: 1C (30A)
- It can be delivered with all the single cells voltage connections and temperature sensors.
- Weight: 8kg
- Dimensions: 186 x 77 x 20 [mm]

Prices

The prices shown below must be considered only indicative, since they depend on the final configuration that the client decides to create and order:

ARTICLE CODE	DESCRIPTION	QUANTITY	PRICE [€] PER UNIT
COMPL 1K8	ENERG 1K8 + BMS EASY B2	1000 or above	567.40
	ENERG 1K8 + BMS EASY B2	500 to 1000	620.00
	ENERG 1K8 + BMS EASY B2	100 to 500	709.00
	ENERG 1K8 + BMS EASY B2	50 to 100	785.00
	ENERG 1K8 + BMS EASY B2	10 to 50	875.00
	ENERG 1K8 + BMS EASY B2	1 to 10	980.00

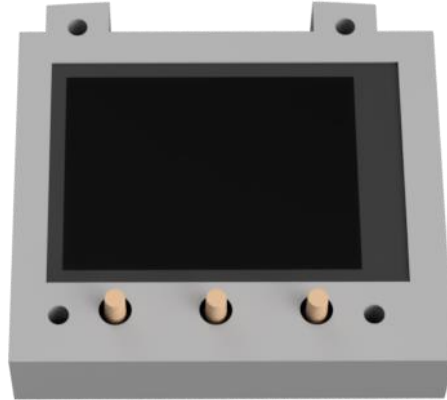
For **more than 2000 pieces** get a specific **quotation**.

Payment terms: 30 DAYS PAYMENT

Delivery time: 6 weeks from order confirmation.

HMI

VISTA 3P8



Overview

VISTA 3P8 is a **versatile** Human-Machine Interface (HMI) featuring a display size range from 2 to 7 inches, designed for seamless integration across diverse applications. Equipped with **CAN** and **RS485** communication protocols, it supports reliable data exchange and control. With multiple configurable I/O options and 1 to 5 programmable buttons, VISTA 3P8 offers flexible control and monitoring capabilities. Ideal for industrial and automation environments, its compact design combines high functionality with easy usability, making it a powerful solution for efficient system management and user interaction.

Customizable Key Features

- 2 to 7 inches.
- CAN and RS485.
- Multiple configurable I/O options.
- 1 to 5 programmable buttons.
- Ideal for industrial and automation environments.
- Compact, high-functionality design.
- Possibility to use different displays.

Technical Specifications

- Supply: from 5V to 65V
- I/O: from 5 to 15
- Communication protocols: RS485, SPI, I2C, Serial, CAN

Prices

The prices shown below must be considered only indicative, since they depend on the final configuration that the client decides to create and order:

ARTICLE CODE	DESCRIPTION	QUANTITY	PRICE [€] PER UNIT
VISTA 3P8	HMI DISPLAY	1000 or above	60.00
	HMI DISPLAY	500 to 1000	70.00
	HMI DISPLAY	100 to 500	80.00
	HMI DISPLAY	50 to 100	90.00
	HMI DISPLAY	10 to 50	105.00
	HMI DISPLAY	1 to 10	110.00

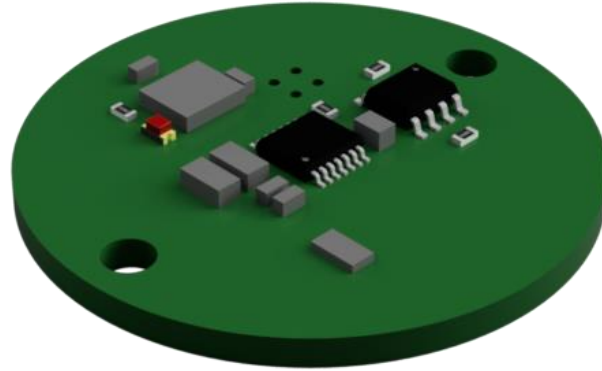
For **more than 2000 pieces** get a specific **quotation**.

Payment terms: 30 DAYS PAYMENT

Delivery time: 6 weeks from order confirmation.

ENCODER

GIRI 1



Overview

GIRI 1 is a compact **Hall effect encoder** featuring **RS485** communication at **2MHz**, delivering high-speed, reliable data transfer for precise position and speed sensing. Designed for space-constrained applications, it provides accurate feedback with minimal footprint, making it ideal for robotics, motor control, and industrial automation. GIRI 1 ensures robust, responsive performance, meeting the demands of challenging environments while optimizing efficiency and precision.

Customizable Key Features

- Technology: Hall effect encoder
- Communication Protocol: RS485
- Communication Speed: 2MHz
- Primary Function: Position and speed sensing
- Application Suitability: Ideal for robotics, motor control, and industrial automation
- Design: Compact, space-efficient
- Dimensions: circle, radius = 18.4mm (customizable)

Prices

The prices shown below must be considered only indicative, since they depend on the final configuration that the client decides to create and order:

ARTICLE CODE	DESCRIPTION	QUANTITY	PRICE [€] PER UNIT
GIRI 1	ENCODER GIRI 1	1000 or above	13.50
	ENCODER GIRI 1	500 to 1000	14.00
	ENCODER GIRI 1	100 to 500	15.00
	ENCODER GIRI 1	50 to 100	16.00
	ENCODER GIRI 1	10 to 50	17.00
	ENCODER GIRI 1	1 to 10	20.00

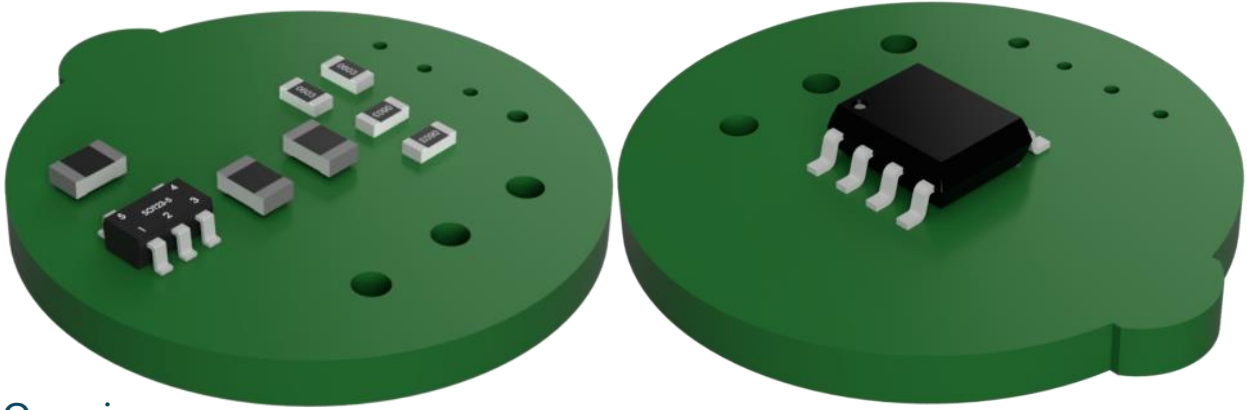
For more than 2000 pieces get a specific quotation.

Payment terms: 30 DAYS PAYMENT

Delivery time: 6 weeks from order confirmation.

THROTTLE

VELOMAG



Overview

VELOMAG is a **digital potentiometer** that leverages a **Hall effect** sensor to precisely measure throttle position in industrial vehicles. Built for durability and accuracy, VELOMAG ensures smooth control and reliable feedback, even in demanding environments. With no mechanical contact, it offers longer lifespan and reduced maintenance, making it ideal for heavy-duty applications. Easy to integrate, VELOMAG is the ultimate solution for accurate throttle positioning in industrial vehicles.

Customizable Key Features

- Technology: Hall effect
- Voltage output from 0 to 5V (0° to 360° or your maximum excursion)
- Programmable angle range from 1° to 360° (complete circle) to increase precision
- Primary Function: Position and sensing
- Application Suitability: Ideal for industrial automation
- Design: Compact, space-efficient
- Dimensions: circle, radius = 9.6mm (customizable)

Prices

The prices shown below must be considered only indicative, since they depend on the final configuration that the client decides to create and order:

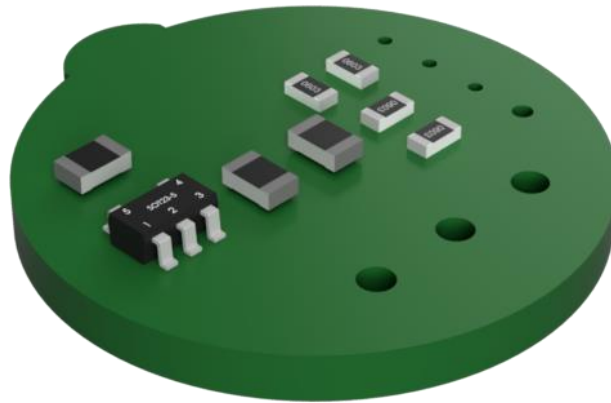
ARTICLE CODE	DESCRIPTION	QUANTITY	PRICE [€] PER UNIT
VELOMAG	THROTTLE VELOMAG	1000 or above	6.00
	THROTTLE VELOMAG	500 to 1000	6.50
	THROTTLE VELOMAG	100 to 500	7.00
	THROTTLE VELOMAG	50 to 100	8.00
	THROTTLE VELOMAG	10 to 50	9.00
	THROTTLE VELOMAG	1 to 10	13.00

For more than 2000 pieces get a specific quotation.

Payment terms: 30 DAYS PAYMENT

Delivery time: 6 weeks from order confirmation.

VELOPOT



Overview

VELOPOT is the equivalent of VELOMAG but using **analog traditional potentiometer**. Customizable on client machine.

Customizable Key Features

- Analog traditional potentiometer
- Voltage output from 0 to 5V (0° to 360° or your maximum excursion)
- Primary Function: Position and sensing
- Application Suitability: Ideal for industrial automation
- Design: Compact, space-efficient
- Dimensions: circle, radius = 9.6mm (customizable)

Prices

The prices shown below must be considered only indicative, since they depend on the final configuration that the client decides to create and order:

ARTICLE CODE	DESCRIPTION	QUANTITY	PRICE [€] PER UNIT
VELOPOT	THROTTLE VELOPOT	1000 or above	7.00
	THROTTLE VELOPOT	500 to 1000	7.50
	THROTTLE VELOPOT	100 to 500	8.00
	THROTTLE VELOPOT	50 to 100	9.00
	THROTTLE VELOPOT	10 to 50	10.00
	THROTTLE VELOPOT	1 to 10	15.00

For more than 2000 pieces get a specific quotation.

Payment terms: 30 DAYS PAYMENT

Delivery time: 6 weeks from order confirmation.

INVERTER

PICCOLO 50



Overview

PICCOLO 50 is a **compact, high-performance 12V-48V inverter** delivering up to 50A of current, ideal for applications requiring efficient power management in a small footprint. Featuring **CAN** and **RS485** communication interfaces, it supports seamless integration and precise control. With 10 configurable I/O ports and 3 independent 2A power outputs, PICCOLO 50 provides versatile functionality for complex systems. Its design focuses on reliability and ease of use, making it perfect for industrial and energy applications where space-efficient, flexible, high-current solutions are essential.

Key Features

- Input Voltage Range: 12V-48V
- Power (Peak): Up to 1400W (50A for 2 minutes at 48V)
- Power (Continuous): 1440W (30A at 48V)
- Current Capacity: 50A peak (2 minutes) / 50A continuous
- Communication Protocols: CAN and RS485
- I/O Ports: 10 configurable I/O ports
- Power Outputs: 3 independent power outputs at 2A each
- Design: Compact and space-efficient
- Application Suitability: Ideal for industrial and energy management systems
- Dimensions: 113 x 86 x 25 [mm]

Prices

The prices shown below must be considered only indicative, since they depend on the final configuration that the client decides to create and order:

ARTICLE CODE	DESCRIPTION	QUANTITY	PRICE [€] PER UNIT
PICCOLO 50	INVERTER PICCOLO 50	1000 or above	75.00
	INVERTER PICCOLO 50	500 to 1000	85.50
	INVERTER PICCOLO 50	100 to 500	120.00
	INVERTER PICCOLO 50	50 to 100	160.00
	INVERTER PICCOLO 50	10 to 50	180.00
	INVERTER PICCOLO 50	1 to 10	200.00

For more than 2000 pieces get a specific quotation.

Payment terms: 30 DAYS PAYMENT

Delivery time: 6 weeks from order confirmation.

PICCOLO 100



Overview

PICCOLO 100 is a **compact, high-performance 12V-48V inverter** delivering up to 100A of current, ideal for applications requiring efficient power management in a small footprint. Featuring **CAN** and **RS485** communication interfaces, it supports seamless integration and precise control. With 10 configurable I/O ports and 3 independent 2A power outputs, PICCOLO 100 provides versatile functionality for complex systems. Its design focuses on reliability and ease of use, making it perfect for industrial and energy applications where space-efficient, flexible, high-current solutions are essential.

Key Features

- Input Voltage Range: 12V-48V
- Power (Peak): Up to 4800W (100A for 2 minutes at 48V)
- Power (Continuous): 2400W (50A at 48V)
- Current Capacity: 100A peak (2 minutes) / 50A continuous
- Communication Protocols: CAN and RS485
- I/O Ports: 10 configurable I/O ports
- Power Outputs: 3 independent power outputs at 2A each
- Design: Compact and space-efficient
- Application Suitability: Ideal for industrial and energy management systems
- Dimensions: 130 x 88 x 28 [mm]

Prices

The prices shown below must be considered only indicative, since they depend on the final configuration that the client decides to create and order:

ARTICLE CODE	DESCRIPTION	QUANTITY	PRICE [€] PER UNIT
PICCOLO 100	INVERTER PICCOLO 100	1000 or above	120.00
	INVERTER PICCOLO 100	500 to 1000	150.50
	INVERTER PICCOLO 100	100 to 500	175.00
	INVERTER PICCOLO 100	50 to 100	220.00
	INVERTER PICCOLO 100	10 to 50	300.00
	INVERTER PICCOLO 100	1 to 10	340.00

Price estimation for 2025 new version:

ARTICLE CODE	DESCRIPTION	QUANTITY	PRICE [€] PER UNIT
PICCOLO 100 '25	INVERTER PICCOLO 100 '25	1000 or above	85.00
	INVERTER PICCOLO 100 '25	500 to 1000	100.50
	INVERTER PICCOLO 100 '25	100 to 500	135.00
	INVERTER PICCOLO 100 '25	50 to 100	170.00
	INVERTER PICCOLO 100 '25	10 to 50	200.00
	INVERTER PICCOLO 100 '25	1 to 10	220.00

For more than 2000 pieces get a specific quotation.

Payment terms: 30 DAYS PAYMENT

Delivery time: 6 weeks from order confirmation.