

## User Manual

(Version V1.0)

### Backup battery Module

UPS for EEV controller



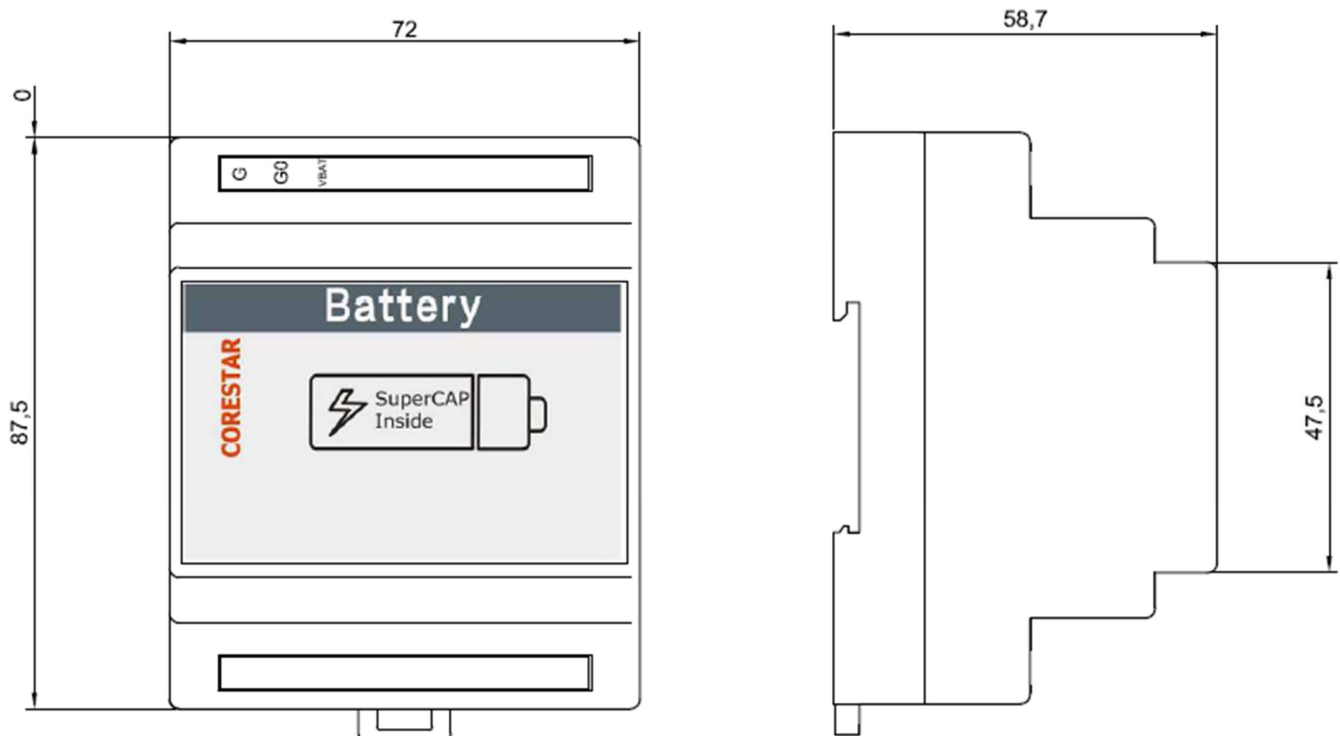
## Introduction

This supercapacitor module can be installed on a DIN rail to ensure temporary power supply to the driver in the event of a power failure, allowing sufficient time to immediately close the connected electronic expansion valves (1 or 2). With this capacitor module, there is no need to install a solenoid valve. It is designed based on supercapacitor technology. Compared with modules using ordinary batteries, it has a longer service life and more charge and discharge cycles, ensuring the long-term reliability of the product. The module adopts high-current charging technology, and it can fully close all brands of electronic expansion valves after 5 minutes of charging.

## Features

- Using supercapacitor technology;
- long lasting;
- Short power-off response time to ensure that the expansion valve module does not lose power;
- The charging time is short, charging for 5 minutes can ensure the complete closing of the expansion valve of all brands;
- DIN installation, convenient and reliable;

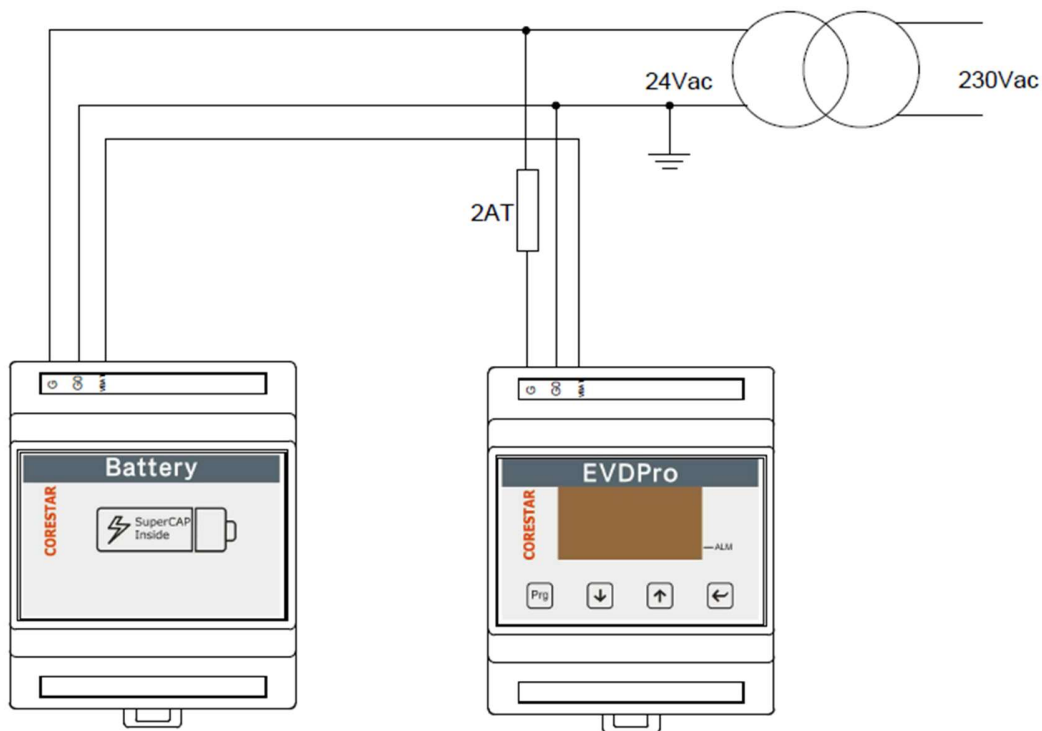
## Dimensions(unit: mm)



## Meaning of terminals

G GO	Power supply, when using DC power supply, GO = V-
VBAT	Backup battery output

## Wiring Diagram



## Technical specifications

Power supply	24 Vac (+10/-15%) 50/60 Hz, 24 Vdc (+10/-15%)
Max power consumption	9.8VA (Charging)
Output voltage (VBAT)	18.4Vdc (+10/-15%)
Max output current	0.75A
Minimum charging time	5 minutes
Installation	DIN rail
Connectors	Removable connectors, pitch 5.0mm, cable spec: 0.5~2.5 mm <sup>2</sup> (12 to 20 AWG)
Dimensions (mm)	LxHxW=72x87.5x58.7
Operation conditions	-25~60° C, <90%, non-condensing
Storage conditions	-35~60° C, 90%rH, non-condensing
IP level	IP20
Lifetime	80000H @ 25° C 7000H @ 70° C
Lifecycle	500000 cycles @25° C
Certifications	safety: EN 60730-1, UL60950 EMC: EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 61000-6-4; EN61000-3-2, EN55014-1, EN55014-2, EN61000-3-3.