



VDL RENA ELECTRONICA

90519069

BITS2POWER® Data Control Solution

Product description

- 48V Bits2Power Controller
- Powered by standard 48V Power Supplies
- Maximum Power to be connected xxx Watts
- Multiple Protocol Keys can be connected
- 3 Year Warranty
- CE certified
- IP20

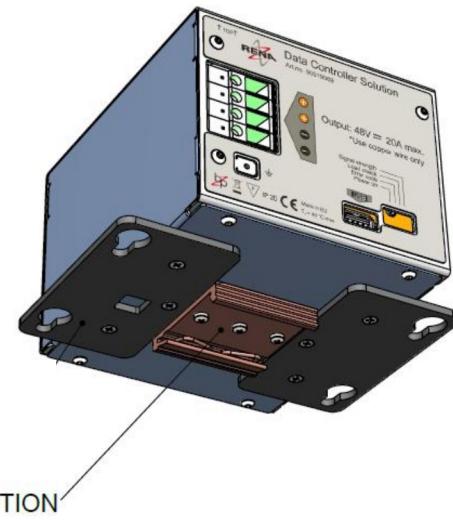
Applied Standards

EN55022

EN55024

Technical notes

| | |
|------------|---------------------|
| Dimensions | 148x131x88mm |
| Weight | 1 kg. |
| Housing | Stainless steel 430 |
| Color | Blanc |



OPTION

Ordering data

| Type | Article number |
|------|----------------|
| DCS | 90519069 |

Electrical Characteristics

| | |
|----------------------|--------|
| Input voltage ① | 48 Vdc |
| Output current max ① | 20A |
| Standby power ② | 2,5W |

Protections

| | |
|------------------------|---|
| Overheating Protection | Automatic recovery |
| Output Current | Automatic dimming implemented in driver |

Connections

| | |
|----------------|--|
| Input voltage | AWG16 ... 10 |
| Output voltage | AWG16 ... 10 |
| I/O | USB |
| I/O slots | Firmware update Protocol data key Optional modules |

Technical details

| | | |
|--------|------------------|--------------------------------------|
| Output | DC voltage Range | 48 V ① |
| | Maximum current | 20 A ① |
| Input | DC voltage Range | 48 V ① |
| | Maximum current | 20 A ① |
| Input | Over Voltage | Input protected by TVS diode |
| | EMI | EN55022 (CISPR22) |
| | EMS IMMUNITY | EN55024, EN61000-4-2, 3, 4, 5, 6, 11 |

① Tolerance of 5%

② Nominal value

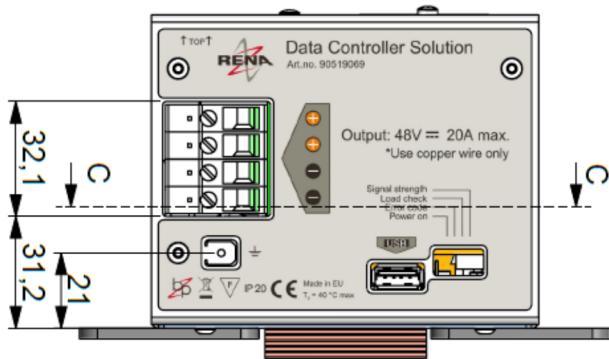
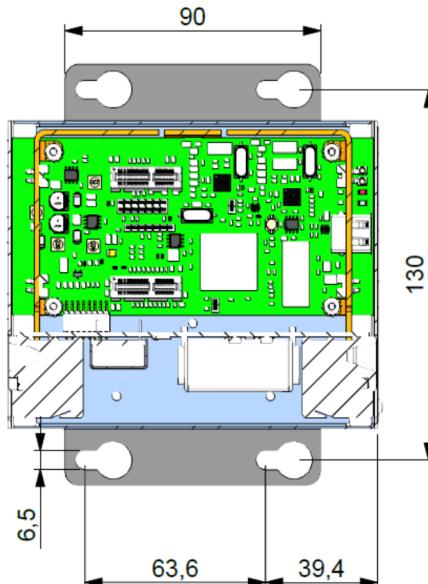
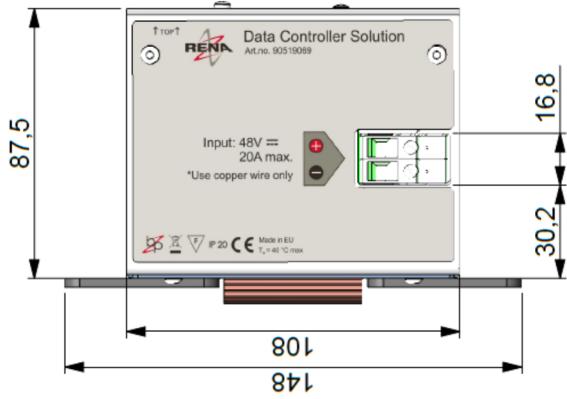
③ Tolerances of 5% and for each circuit



Mechanical Dimensions

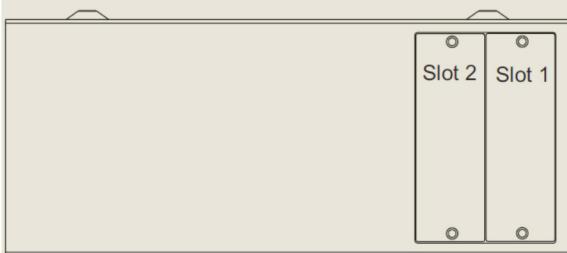
Overall dimensions

L = 148 x W = 131 mm
Height = 88 mm



Packaging

| | |
|----------------------|----------------|
| Box size (mm) | 370x170x125 mm |
| Quantity each Box | 2 |
| Weight each box (kg) | 2,2 kg |



Module installation

Use screwdriver type PH1 for mounting optional modules into slot 1 and slot 2.

Thermal Characteristics

The controller must operate under proper environmental conditions and the operating ambient air temperature must NOT exceed the maximum given temperature.

For an optimal lifetime performance the controller must be placed in an environment where a sufficient heat transport is guaranteed. The heat transport is done by natural convection. It's not recommended to expose the module to direct sunlight or any other heat source.

Environmental characteristics

| | |
|-----------------------|-------------|
| Storage temperature | -20 – +85°C |
| Operating temperature | -5 – +40°C |
| Operating humidity | 10-95% RH |
| IP classification | IP20 |

Tc point

For an optimal lifetime performance the Tc point of the device must never exceed [75] degrees Celsius.

The maximum value must be determined under operating conditions in a thermally stable state and under worst-case conditions for the current application

Installation and Safety Information

Installation must be carried out under observation of the relevant regulations and standards. The following advice must be followed:

- The device contains components that are sensitive to electrostatic discharge and may only be installed in the factory and on site if appropriate EOS/ESD protection measures have been taken.
- Use wire size of minimum AWG 20 for connecting the B2P system.
- Use wire size of minimum AWG 14 for connection to mains.
- Please ensure the correct polarity of the leads.
- For outdoor or damp locations, be aware of the IP classification.

All above specifications must be met in order to qualify for the 3 year warranty.