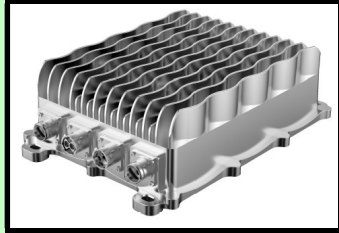


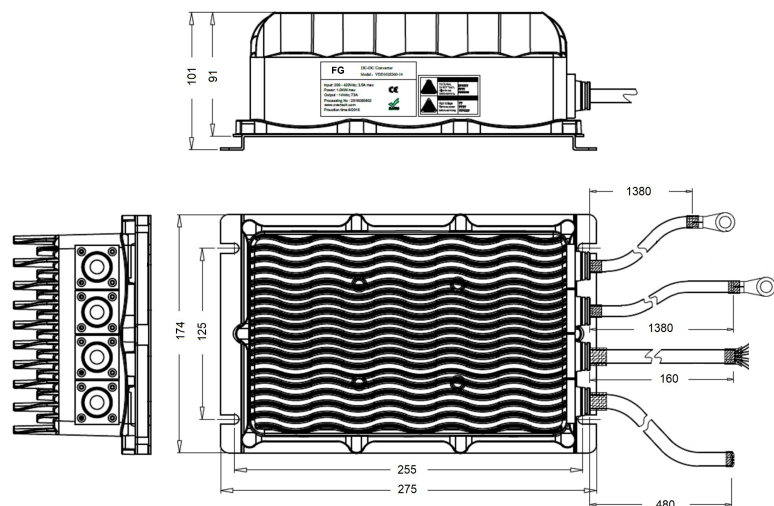
1kW DC-DC converter



■ DC-DC converter 1 kW

- **Features :**
 - CNC machined aluminum
 - 272 x 175 x 94 mm
 - 10.7 x 6.9 x 3.7 inches
 - Air cooled
 - 2 kg
 - IP67
 - 40 to +75°C
 - 94% efficiency
- **Power input :**
 - 1 kW
 - 200-420 Vdc continuous voltage
 - 3.5A
- **Power output :**
 - 12 Vdc
 - 0 – 72 A (current generator)
- **Communication :**
 - CAN bus 250 kbs 11 bits
 - Cyclic frame 1 sec
 - Data : current, voltage, temp, ...
- **Input Protections :**
 - Surge protection
 - Short circuit protection
 - Over voltage protection
 - Under voltage protection
 - Input fuse current protection
- **Output Protections :**
 - Short circuit protection
 - Over load protection
 - Reverse polarity protection
 - Over voltage protection
 - Over temperature protection
 - Current limit protection
 - Output fuse current protection
- **“Interface” options :**
 - CAN bus 250/500/1000 kbs 11/29 bits
 - Datalogger, blackbox
 - RS 485 / Profibus
- **Cables :**
 - CAN bus length : 30 cm (Deutsch DT4 connector)
 - DC input length : 50 cm (Power connector)
 - DC output length : 100 cm (M10 terminals)

- The DCDC1KW is a compact and efficient embedded DC-DC dedicated to high voltage battery from 200V DC to 420 V DC.
- Such device is necessary in modern high voltage power train architecture. Indeed all of the devices involved in your electric vehicle or boat are powered from a 12V battery. But it is not necessary to have a very big, heavy and expensive 12V battery, because you already have a high voltage battery! What you need is a powerful DC-DC to convert this high voltage into a low voltage in order to power all the embedded devices.
- The large input capabilities (200-420 Vdc) let you use it with a lot of high voltage battery configuration. It includes a pre-charge relay so that you don't need to have one inside your battery dedicated to the DC-DC.
- You can place the DCDC1KW in any position. The large cooling wings are able to cool down the device when providing 70A as output current.
- By default the CAN bus is a 11 bits 250 kbs baudrate with no terminal impedance, and can be adapted to your needs thanks to the “Interface” option.



- The “Interface” option is a very compact module that is assembled to the CAN bus interface of the DC-DC to adapt it easily to your network. If your CAN bus is a chained one and the charger is not the last device connected, you will need a special IN/OUT device to insert it easily in your wire harness.
- You want to change the baudrate or your CAN bus is a 11 bits bus? The “Interface” option will translate the DCDC1KW protocol to your own. Moreover, the “Interface” includes an embedded storage memory to track the usage of your converter and store some special events like overvoltage or overtemperature.