

# Application note



Subject:  
**Certified energy billing in fast  
chargers for electric vehicles**

Industry:  
**EV Charging stations**

Product:  
**DCM1**

Customer:  
**OEMs**

## CUSTOMER ISSUE

Manufacturers of electric vehicle fast chargers need a DC meter that can correctly measure the amount of energy supplied to the battery, in order to accurately bill the customer.

## OUR SOLUTION

The DCM1 is compatible with most DC chargers on the market due to its wide voltage and current measurement range.

Thanks to cable loss compensation, only the energy supplied to the vehicle battery is considered, therefore eliminating losses due to cable resistance.

CE, cURus, MID, LNE and Eichrecht certifications along with the generation of the signed OCMF files ensure accurate measurements and data authenticity.

## BENEFITS

- Wide measurement range up to 1000 V dc, 300 or 600 A
- Cable loss compensation
- Modbus TCP and Modbus RTU in the same unit
- Temperature monitoring for diagnostics
- CE, cURus, MID, LNE, Eichrecht certified, compliant with CTEP requirements
- Generation of signed OCMF files according to S.A.F.E specification, compliant with Transparency Software