



IEM-DCR 1500

HIGH PRECISION DC ENERGY METER

ISAscale® Energy Meter – DC charging

INTRODUCTION

The IEM-DCR-1500 represents a variant of the second generation of precise DC energy metering by Isabellenhütte. It comes with a display unit and a sensor unit which allows to serve applications in charging infrastructure and utility domains. The combination of the display unit (DU) and the sensor unit (SU) comprises the IEM-DCR models. The SU-1500 as a standalone is available as the IEM-DCS 1500.



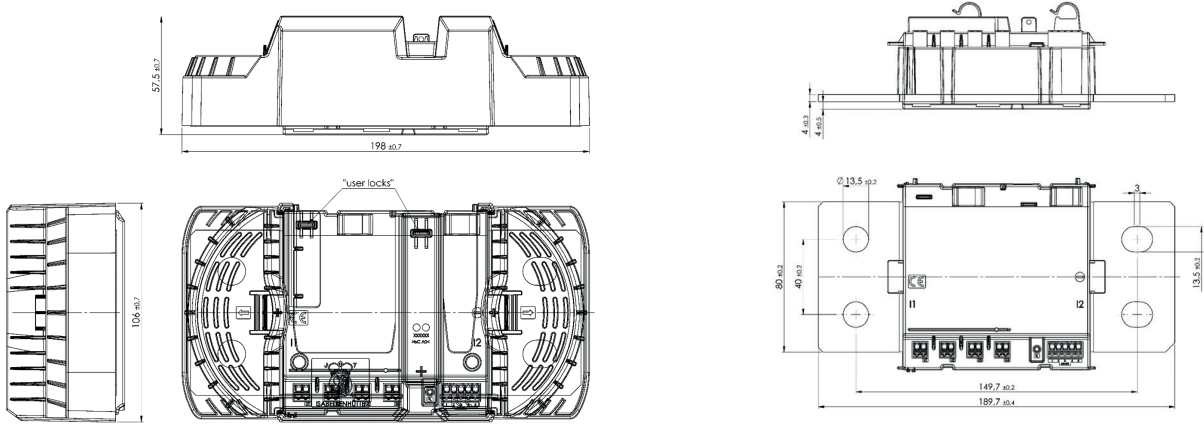
APPLICATIONS

- Megawatt Charging Systems (MCS)
- Heavy-duty EV charging
- Smart metering
- Battery Energy Storage System

FEATURES

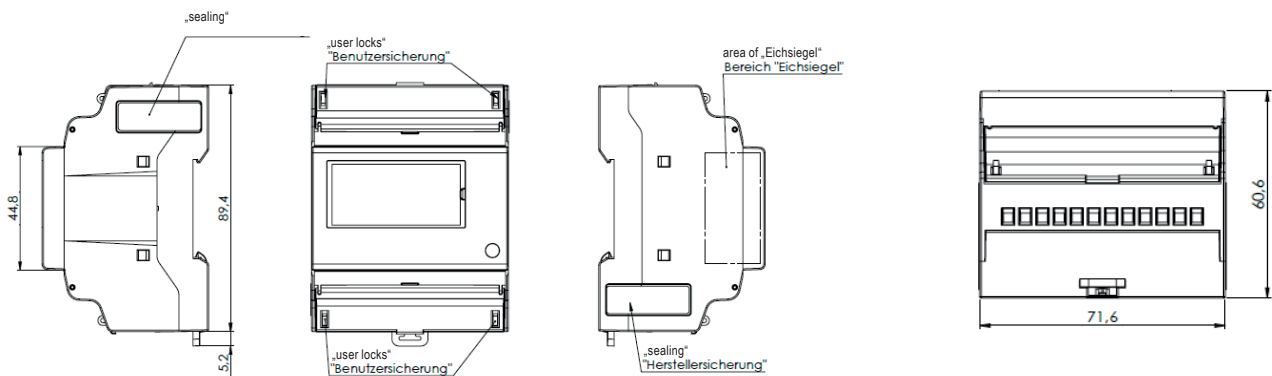
- Output of real-time data (temperature, current, voltage, energy) every 10 ms via CAN
- Current measurement up to 1,500 A
- Voltage measurement up to 1,400 V
- Bi-directional Measurement
- 2 (4) voltage channels
- Compensation of cable losses
- OCMF compliant to S.A.F.E.
- Fast software integration with Isabellenhütte Everest driver
- Certifications:
 - MID
 - German calibration law

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Sensor Unit SU-1500

Description	Value	Unit
Rated current	1,500	A
Rated voltage	1,400	V
Number of voltage channels	4	
Power path	Shunt, 80x4	mm
Mounting	Busbar, 4x M12	
Max. terminal temperature	105	°C
Max. ambient temperature	-40 to 70	°C



DISPLAY UNIT

Description	Value	Unit
Power supply voltage	12 - 24	V
Physical interfaces	RJ45 (Ethernet), Terminal: CAN Info	
Terminal connectors	1.5	mm ²
Display size	47.98 x 18.22	mm
Display resolution	128 x 64	pixel
Mounting	Din-Rail, 4 modules 72	mm
Max. ambient temperature	-30 to 70	°C