

# Finest Calibration – to trust in charging

Easy Chester® Calimera

With the innovative  
cooling technology



**comemso**

Easy Chester® Calimera

# Power on the Road, Precision as an atomic clock

Easy Chester® Calimera is designed to ensure that your charging station delivers accurate and reliable billing. Your customers enjoy the highest level of trust in every charging process and every transaction.



State laboratories  
and calibration authorities

Operators of  
charging infrastructures

Provider of  
technical services



## 130 kW

Performance range

## 150 - 1.000 V

Voltage range

## 0 to 500 A

Power range

**+** *Intelligent*

### The heart of the Calimera

The plug-in modules of the Easy Chester® family form the functional core of Calimera. They enable all standardised communication settings, be it CCS1, CCS2, NACs or CHAdeMO.

**+** *Sophisticated & precise*

### Modular granularity

Configure the Easy Chester® Calimera with the Power House. This allows you to achieve the optimized load configuration for the power range of your charging station.

**+** *Easy to use*

### Perfect Service

To ensure a high level of system availability, individual modules can be replaced independently and without complications.

**+** *Cooling*

### Cool Flow Tech

The innovative cooling technology enables reliable heat dissipation.



# With a strong Character

## Verified accuracy

The Easy Chester® Calimera ensures the compliance with calibration legislation and provides reliable measurements and performs stationary in the laboratory and mobile in the field.

## Extended measurement functionality

Integrated crossover measurement functions ensure high accuracy in every charging process and power range. Reach all test points below your performance characteristic in high granularity.

## Mobil flexibility

Check your charging stations on site. Our mobile test system can be integrated into any trailer or van.

## Price-performance on customer request

Configure the Easy Chester® Calimera to suit your projects and budgets. Its modular design offers the unique opportunity to grow with your project.

## Industrial and field experience

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## Comprehensive software support

Easy Chester® Calimera's PC software comframe offers extensive features for user-friendly configuration, management, operation and monitoring.

## Use cases

### Operators of charging infrastructures

Use the Easy Chester® Calimera to ensure that all their charging stations meet legal calibration requirements.

### Provider of technical services

Use the instrument for flexible and fast on-site calibration while minimizing downtime.

### State laboratories and calibration authorities

To ensure compliance with legal standards, calibration authorities use the Easy Chester® Calimera to verify and certify charging station billing methods.



With the brand new software comframe

## Software features

### Configuration

Configure the test points and related activation period if manual test points are desired.

### Test libraries

Get EVSE-related automated testing scenarios.

### Real-Time-Control

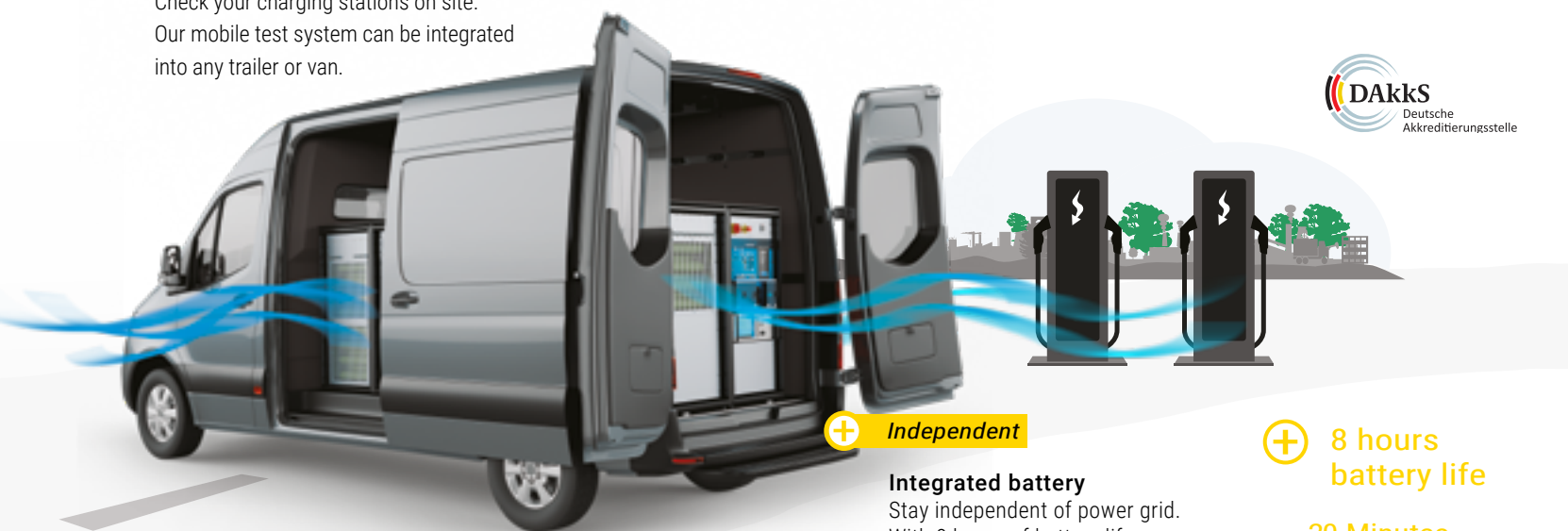
Analyze your AC/DC measurements in the graphic view (oscilloscope GUI) or directly inside the measurement data.

### Device status and events

See the operational status of the Easy Chester Calimera and obtain information in the case of malfunctions.

### Report creation

Save the test report as a tamper-proof PDF file.



+ Independent

### Integrated battery

Stay independent of power grid. With 8 hours of battery life, you can check more than one charging station.

+ 8 hours battery life

20 Minutes charging time

## Products

118-4-001 –  
Easy Chester® Calimera - 050 (AC/DC)

118-4-002 –  
Easy Chester® Calimera - 050 (DC)

118-4-003 –  
Easy Chester® Calimera - 130 (AC/DC)

118-4-004 –  
Easy Chester® Calimera - 130 (DC)

118-4-005 –  
Easy Chester® Calimera - 080 (AC/DC)

118-4-006 –  
Easy Chester® Calimera - 080 (DC)

## Add-Ons

118-2-005 –  
Easy Chester® - Pulse Counter

818-1-007 –  
Power Meter LMG641-BAS / DC 500 A 1ch

818-1-008 –  
Add-On - Power Meter LMG641-671 / AC 32 A 1 ph

819-1-001 –  
Power Meter PW 8001 / DC 500 A 1ch

819-1-002 –  
Add-On - Power Meter PW 8001 / AC 32 A 1 ph

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## Technical Data

<b>Communication protocols</b>	IEC 61851-1, DIN 70121 / ISO 15118 -2 / -3 with DC-CCS IEC 61851-1, ISO 15118 -2/-3 with AC (1-/-3-phase) CHAdeMO 0.9, 1.0, 1.1, 1.2 , NACS	
<b>Max. simulated load ratings</b>	DC power rating DC voltage / current AC voltage (1-phase) AC current (1-phase)	up to 130 kW 150 - 1.000 V $\overline{=}$ / 500 A $\overline{=}$ 100 V - 240 V $\overline{\approx}$ up to 32 A $\overline{\approx}$
	<b>Remark</b>	3-phase $\overline{\approx}$ measurements to be measured sequentially or at once
<b>Measurement range / accuracy</b> Related to auxiliary power meter in temperature range 23°C+/-3K	Charging station DC - voltage range Accuracy Charging station DC - current range Accuracy	0 - 1000 V $\overline{trms}$ <0,1 % ( full scale (FS), 0-10 Hz) 0 - 500 A $\overline{rms}$ <0,1 % ( full scale (FS), 0-10 Hz)
	Charging station AC - voltage range Accuracy Charging station AC - current range Accuracy	100 .. 240 V $\overline{rms}$ (3x 1-phase) <0,1 % ( full scale (FS), 45 .. 65 Hz) 0 .. 32 A $\overline{rms}$ <0,1 % ( full scale (FS), 45 .. 65 Hz)
<b>Measurement modes</b>	Crossover energy measurement with DC V max / I min and V min / I max Arbitrary / user selected test points within rated power law-conform measurement according to charging power limits Optional: pulse counter to attach supporting energy meters	
<b>Auxiliary interfaces (Front)</b>	2x AC sockets (Type F) for auxiliary devices, e.g., notebook, reference power meter 2x banana plugs (isolated) for reference measurements of DC voltages	
<b>Software features</b>	Test device and experiment configuration, real-time monitoring, test control, device status, event logging, PDF report generation	
<b>IP Rating</b>	IP 21 in operation, IP 65 inactive	
<b>Grounding</b>	with clamp / screw connection to the DuT (charging station)	
<b>Calibration</b>	ISO 17025 calibration with certificate	
<b>Norm conformity</b>	Industrial safety EMC	IEC 61010-1 IEC 61326-1:2020
<b>Supply</b>	AC voltage (1-phase) 187 - 265 V $\overline{\approx}$ (45 - 65 Hz); integrated buffer battery + solar panel for operation up to 8 hours without external supply	
<b>Power consumption</b>	Max. 1.000 W (not including aux. devices)	
<b>Temperature range</b>	0 - 40 °C / 32 - 104 °F	
<b>Humidity range</b>	< 85 %	
<b>Max. test run period</b>	20 min without thermal recovering	
<b>Transportability</b>	Suitable for trailer or van transportation (van option on request)	
<b>Dimension (WxHxD)</b>	125 x 140 x 250 cm	
<b>Weight</b>	500 kg	