

comemso



Easy Chester® Calimera

In-Field Calibration
Increase the trust in
EV-Charging

Easy Chester® Calimera

Power on the Road, Precise like an atomic clock

Easy Chester® Calimera has been designed to ensure that your charging station delivers accurate and reliable billing. With every charging session and transaction, your customers maintain the highest level of trust.

Operators of charging infrastructures

State laboratories and calibration authorities

Provider of technical services



+ 40-282 kW

Performance range
Peak 320 kW DC + 22 kW AC

+ 150-1.000 V
Voltage range

+ 0 to 500 A++
Current range

+ Intelligent

The heart of the Calimera
Plug-in modules of the Easy Chester® family build the functional core of Calimera, enabling all standardised communication protocols, be it CCS1, CCS2, NACS or CHAdeMO.

+ Sophisticated & precise

Modular granularity
Configure the Easy Chester® Calimera with the Power Houses. 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, 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

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

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 the 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

126-4-011 –
Easy Chester® Calimera - 062
CCS1, CCS 2, CHAdeMO + 40 kW DC + 22 kW AC

126-4-012 –
Easy Chester® Calimera - 130
CCS1, CCS 2, CHAdeMO + 130 kW DC

126-4-013 –
Easy Chester® Calimera - 152
CCS1, CCS 2, CHAdeMO + 130 kW DC + 22 kW AC

126-4-014 –
Easy Chester® Calimera - 282
CCS1, CCS 2, CHAdeMO + 260 kW DC + 22 kW AC

Selected Add-Ons

126-4-015 –
Easy Chester® Calimera - Inlet NACS

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

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

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

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

820-1-002 –
Power Meter SRS121.1 DC (1000V, 600A)

820-1-001 –
Power Meter SRS121.3 for AC 120A 3-ph

comemso

© Copyright by
comemso electronics GmbH
Karlsbader Str. 13 | 73760 Ostfildern
Germany
Telefon +49 711 / 982 98 -200
sales@comemso.com

Technical data

Communication protocols	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 - 2.2 , NACS	
Max. simulated load ratings	DC power rating	up to 260 kW (320 kW peak)
	DC voltage / current	150 - 1.000 V $\overline{=}$ / 500 A $\overline{=}$
	AC voltage	100 - 240 V $\overline{\approx}$
	AC current	up to 3x 32 A / 1x 80 A $\overline{\approx}$
Measurement range / accuracy	EVSE DC - voltage range	0 - 1000 V tmrs
	Accuracy	<0,1 % (full scale (FS), 0-10 Hz)
	EVSE DC - current range	0 - 500 A rms
	Accuracy	<0,1 % (full scale (FS), 0-10 Hz)
	EVSE AC - voltage range	100 .. 240 V rms (3x 1-phase)
	Accuracy	<0,1 % (full scale (FS), 45 .. 65 Hz)
	EVSE AC - current range	0 .. 32 A rms (0.. 120 A rms)
	Accuracy	<0,1 % (full scale (FS), 45 .. 65 Hz)
Measurement modes	<ul style="list-style-type: none">• Crossover energy measurement with DC V max/I min and V min/I max• Calibration acc. to OIML G22 and NIST HB44 applicable• Arbitrary / user selected test points within rated power• high resolution measurement in 400 V / 800 V charging bands• law-conform measurement according to charging power limits• Optional: pulse counter to attach supporting energy meters	
Auxiliary interfaces (Front)	2x AC sockets (Type F) for auxiliary devices, e.g., notebook, reference power meter 2x banana plugs (isolated) for reference measurements of DC voltages	
Software features	Test device and experiment configuration, real-time monitoring, test control, device status, event logging, PDF report generation, monitoring of environmental conditions	
IP Rating	IP 32 stand alone, up to IP 65 in carrying vehicle	
Grounding	with clamp / screw connection to the DuT (charging station)	
Calibration	ISO 17025 calibration with certificate	
Norm conformity	Industrial safety	IEC 61010-1
	EMC	IEC 61326-1:2020
Supply	AC voltage (1-phase) 187 - 265 V $\overline{\approx}$ (45 - 65 Hz); integrated buffer battery for operation up to 8 hours without external supply	
Power consumption	Max. 1.000 W (not including aux. devices)	
Temperature range	-10 - 40 °C / 14 - 104 °F	
Humidity range	< 85 %	
Max. test run period	20 min without thermal recovering	
Transportability	Suitable for van integration	
Dimension (WxHxD)	56 x 70 x 66 cm, per module	
Weight	Calimera-062: ~180 kg, Calimera-130/152: ~440 kg, Calimera-282: ~780 kg	