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Easy Chester® Calimera

In-Field Calibration
Increase the trust in
EV-Charging

Easy Chester® Calimera

Power on the Road, Precise as an atomic clock

The Easy Chester® Calimera has been designed to ensure precise and reliable billing at your charging station. This gives your customers the utmost confidence in every charging process and transaction.

+ up to 450 kW

Performance range
450 kW DC (in boost mode) + 22 kW AC

+ 150 - 1.000 V

Voltage range

+ 0 to 950 A

Current range

+ Intelligent

The heart of the Calimera

Plug-in modules from the Easy Chester® family form the functional core of the Calimera and enable support for all standardized communication protocols—whether CCS1, CCS2, NACS, or CHAdeMO.

+ Sophisticated & precise

Modular granularity

Configure the Easy Chester® Calimera with the Power Houses. This allows you to achieve a load configuration optimized 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.



State laboratories
and calibration authorities

Operators of
charging infrastructures

Provider of
technical services



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.

Mobile 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

The modular design offers the unique opportunity to customize the configuration of the Easy Chester® Calimera according to your needs and your industrial and field experience.

Comprehensive software support

The 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 Easy Chester® Calimera for flexible and fast on-site calibration while minimizing downtime.

State laboratories and calibration authorities

use the Easy Chester® Calimera to ensure compliance with legal standards and to verify and certify the billing processes of charging stations.

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

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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 DC voltage / current	Up to 450 kW in boost mode; 150 kW in CONTINUOUS mode 150 - 1.000 V $\overline{=}$ / up to 950 A $\overline{=}$
	AC power rating AC voltage / current	Up to 22 kW 100 - 240 V $\approx$ / up to 3x 32 A / 1x 80 A $\approx$
Measurement range / accuracy	EVSE DC - voltage range Accuracy EVSE DC - current range Accuracy Power/energy Accuracy	0 - 1000 V DC <0,1 % (full scale (FS), 0-10 Hz) 0 - 1000 A <0,1 % (full scale (FS), 0-10 Hz) <0,15 % (full scale (FS), 0-10 Hz)
Related to auxiliary power meter in temperature range 23°C/+/-3K	EVSE AC - voltage range Accuracy EVSE AC - current range Accuracy Power/energy AC Accuracy	Voltage 100 - 240 V AC (1-phase/ 3-phase) <0,1 % (full scale (FS), 45 - 65 Hz) 0 - 120 A <0,1 % (full scale (FS), 45 - 65 Hz) <0,12 % (full scale (FS), 45 - 65 Hz)
Measurement modes	• 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 EMC	IEC 61010-1 IEC 61326-1:2020
Supply	AC voltage (1-phase) 187 - 265 V $\approx$ (45 - 65 Hz); integrated buffer battery for operation up to 8 hours without external supply	
Power consumption	Max. 1500 W (without auxiliary devices)	
Temperature range	-10 to +50 °C / +14 to +122 °F	
Humidity range	< 85 %, no condensation	
Max. test run period	20 min without thermal recovering	
Transportability	Suitable for van integration	
Dimension (WxHxD)	57 x 75 x 65 cm / 22.4 x 29.5 x 25.6 inch (per module)	
Weight	Calimera-062: ~180 kg, Calimera-130/152: ~440 kg, Calimera-282: ~780 kg	