EV86-NACS

EV Charger Analyzer with Meterlink

https://www.flir.com/products/EV86-NACS



The Flir EV86-NACS is an all-in-one EV charger analyzer designed to simplify the safety and performance testing of AC EV charging stations in residential and commercial environments. Supporting both Level 1 and Level 2 chargers, it features an integrated NACS connector and a compact Type 1 adapter for broad compatibility. Automated test sequences, pre-test voltage verification, and clear pass/fail results help technicians work safely and efficiently, while Bluetooth Low Energy (BLE) connectivity pairs seamlessly with the Flir Meterlink® app for wireless report generation, data management, and easy sharing directly from a mobile device.



COMPREHENSIVE EV CHARGER TESTING

Perform complete EVSE diagnostics with Control Pilot (CP) state simulation, CP waveform analysis, CCID performance verification, error simulation, and low impedance measurement to validate charger operation and quickly identify faults.

BUILT FOR SAFE, CONFIDENT TESTING

Work with confidence using Protective Earth (PE) pre-testing to verify no hazardous voltage is present before testing, along with pre-test voltage verification and clear pass/fail results for safer inspections.

FASTER WORKFLOWS WITH AUTOMATED REPORTING

Increase productivity with automated test sequences that reduce manual steps, while Bluetooth Meterlink connectivity enables wireless data transfer and mobile reporting for faster documentation and easy sharing.

Specifications

Key Specifications	
Display Size	3.5 in. TFT-LCD
Connectivity	Bluetooth BLE with 10 m (32 ft) range
Safety Category	CAT II-300 V, IEC61010-1
Measurement & Analysis	
Auto Testing Items	PE Pre-Test, EVSE Interface, CCID Test, and Loop Impedance in Settings Menu
Category Rating	CAT II-300 V
CP Error (E state) Simulation	Pass/Fault

CP State Simulation	CP State Simulation and Waveform A (Disconnected) , B (Connected) , C (Charging), D (Charging w/ ventilation), E (Error occurred), F (Error occurred)
EVSE interface	1 Φ: 250 V max, 2 Φ: 300 V max, 50 / 60 Hz, max 10 A Main Voltage: Range 300 V / Accuracy: +/- 2.0% Frequency Range: 2 kHz / Accuracy: +/- 1 Hz Duty Cycle Range:100% / Accuracy: +/- 5 Digits
Loop Impedance	Range: 2.000 kΩ / Accuracy ±1.0%
PE Error Simulation	Pass/Fault
PE Pre-Test	Range: 50 V AC / DC / Accuracy ±2.0%, Pass / Fault (>50 V AC / DC between PE conductor and touch sensor)

Specifications, cont.

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Specifications, cont.

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PP State Simulation	Not connected, Connected, 13A, 20A, 32A, 63A
RCD/CCID Trip Test	CCID Trip Time Range: 21 mA AC, 5.59 s / Accuracy ±2.0%° Range: 6 mA AC, 5.59 s for <1.2 s / Accuracy ±1.0% CCID Ramping Current Range: 6 mA AC in 0.5 mA steps every 100 ms in 1.2 s , 20 mA AC in 1 mA steps every 100 ms in 2 s. / Accuracy ±2.0%
Voltage Phase Indication	L1, L2, PE, N
Communication & Data Storage	
Connector Types	NACS (Built-in), Type 1 (converter included)
Power	
Auto Power Off	Off / 5 min / 10 min / 20 min / 30 min
Battery	Rechargeable Li-Battery
Battery Life	12 Hours Continuously
General	
Box Contents	1 × EV86-NACS EV Charger Analyzer 1 × Converter (NACS to Type 1) 1 × USB Cable Type A to C 1 × Flir Quick Start Guide 1 × Neck Strap 1 × Carrying Pouch with Shoulder Strap
Size (L x W x H)	296 × 94 × 50 mm (11.6 × 3.7 × 2 in.)
Weight	760 g (1.7 lbs)
Environmental & Certifications	
Certifications	ETL, CE, FCC
EMC	EN61326-1
Operating Altitude	2000 m (6560 ft)
Operating Ambient Temperature and Relative Humidity (RH)	-10°C to 30°C (14°F to 86°F), <85% RH 30°C to 40°C (86°F to 104°F), <75% RH 40°C to 50°C (104°F to 122°F), <45% RH
Pollution Degree	2
Storage temperature and relative humidity [RH]	-20°C to 60°C (-4°F to 140°F), 0 to 80% RH
Warranty	Limited 3-Year Warranty

Specifications subject to change. For the most up-to-date specifications, please visit www.flir.com.

For technical or sales support, please visit:
https://www.flir.com/contact/contact-us/

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