



iSmartEV EC100



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Current Clamp

A current and voltage testing tool for new energy vehicle circuit systems that supports DC voltage, and DC and AC testing. It can be used in conjunction with iSmartEV P01 (optional), iSmartEV P03 (standard), and other detectors as the data display terminal.

Features

- **Simple and safe**
Non-contact DC testing; can detect when power is on.
- **Fast and accurate**
Ultra-high sampling frequency combined with a noise reduction algorithm enables rapid and accurate measurement.
- **Compact and portable**
Ergonomic design, portable, and easy to use.
- **Data stability**
Immune to EMI and provides stable and reliable measurement data.

Functions

- **DC voltage / current testing**
 - Supports current and voltage dual-mode display
 - Supports measurement range selection
 - Supports real-time test value digital display
 - Supports maximum, minimum, and peak-to-peak value display
 - Support measurement waveform storage and playback
- **AC testing**
 - Supports measurement range selection
 - Supports real-time test value digital display
 - Supports maximum, minimum, and peak-to-peak value display
 - Support measurement waveform storage and playback

Parameters

| | | | |
|-----------------------|---------------------------------------|---------------------|---|
| Test functions | DC test, DC voltage test, and AC test | Accuracy | $\pm 3\%FS$ (23°C \pm 5°C, below 75%rh) |
| Battery | 9V dry battery | Phase error | $\leq 3^\circ$ (AC 50Hz / 60Hz, 23°C \pm 2°C) |
| Current test methods | Clamp CT, non-contact measurement | Zero-setting | Adjust the ZERO key for zero setting |
| Jaw dimension | $\varnothing 16$ mm \times 18 mm | Frequency response | DC ~ 50kHz |
| Input measuring range | 0~200A AC/DC | Working current | 500mA |
| Resolution | 1 mAAC/DC | Working temperature | 0~50°C |
| Output gear | 10mV/A (0~20 A), 100 mV/A (0~200 A) | Dimension | 278 \times 71 \times 37 mm |