safevoltOne® - IET01 Solution
CityEV Safevolt® - Connection Series

- Smart solution for facilitating DNO IET01 features
- INTEGRATED FUNCTION built in for all CityEV single & three phase charge points
- Separate single phase switchgear version for DIN rail & Tofco industry connection boxes & premises installs
- British designed and manufactured - OZEV & Elexon® approved - compact and durable 316 stainless steel construction - wall, post & column mount charge points
- CityEV back office management system - web access & CityEV+ app compatible
- CityEV API and OCPP charge point support, Contactless, NFC, QR, RFID

2026 see's the introduction of the new IET01 standards recommendations, put forward by the IET; the standard addresses an enhanced solution for open neutral, (PEN failure) conditions, (generally), but in particular EV charge points; the term OPDD has now been invoked to refer to these devices, (Open combined Protective and neutral (PEN) conductor Detection Devices. This is a comprehensive approach to the subject which sets strict limits on OPDD performance criteria. The CityEV Safevolt® PEN failure device which has been in service to meet BS7671 amd.1 for a number of years is being superseded early in 2026 by the CityEV safevoltOne® specifically aimed at addressing the new standard.

The CityEV safevoltOne® range encompasses integrated and standalone solutions to address the requirements of the new IET01 standard and will be available across the UK CityEV range in the early part of 2026, for more information contact sales.

Revision 5.0- March 2026 CityEV® products are the subject of one or more patent applications. CityEV® logos are registered trademarks.

safevoltOne® Specifications

Electrical	
Charge Current Rating	Normal 32A, single phase
EV Charger Power Rating	Max 7360W
Supply Voltage	85V - 275V
Supply Rating	Single Phase Max 40A
Connections	
Terminals (single phase)	Top and bottom industry standard terminal connections
	10mm sq. screw type L/N/E
	Use in conjuntion with appropriate circuit protection
Charge Mode	
Charge Mode	Mode 3 fully compliant
Charge Power Control	
Maximum Charge Current	Up to 32A
User Controls	
Display	Bright Tri-colour LED display indicators
Displayed Information	Power • Input mains available Output ON • Output mains available TRIP • PME fault
Remote data collection	Via CityEV charge point (integrated version)
Controls	
Local	PME Fault test/trip manual reset (separate version)
Safety Features	
Rated Conditional S/C current	6kA, (3kA integrated CityEV charge point version)
Earth Fault Isolation	3 Pole L-N-E
Operating Mode	M1a
Earth Fault Trip Delay	Max 800mS
Earth fault Trip Reset	Manual
PME Fault Monitoring	Automatic
Charge Current Monitor	EV charging current automatically monitored for under/over current conditions. EV Supply disconnected for over current faults
Mounting Options	
Mounting Applications	Integrated version for in all CityEV charge points; separate version for standard enclosures for lamp columns and cabinets - Tofco compatible
	Lamp columns, Feeder pillars, cabinets, (& integrated with all CityEV charge points)
Cable Entry (separate version)	Top and bottom industry standard terminal connections
Environmental	
Enclosure Size (separate version)	140mm H x 170 W x 70mm D - Weight 750g
Environmental Protection	To be housed in switchgear enclosure - Tofco compatible
Mounting (separate version)	35mm DIN rail
Operating Temperature	-20°C to +55°C
Operating Humidity	10% to 95%

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