



EV & Solar Protection Unit

Compact 4-way consumer unit for EV charging and solar PV systems. Each unit includes a B-Curve/C-Curve, A-Type bi-directional RCBO (double pole) and an integrated Type 2 Surge Protection Device (SPD). Available in metal (standard indoor) or IP plastic (higher weather protection) enclosures.

- Bi-directional RCBO(double pole)– Works with EV chargers and solar
- A-Type (30mA + 6mA DC) – Compliant with BS 7671 for EV and PV
- B-Curve/C-Curve (3–5× In) – Suitable for resistive loads and EV chargers
- Integrated Type 2 SPD – 20kA/40kA surge protection
- Multiple knock-outs – 25mm & 32mm top/bottom (metal); cable glands included (plastic IP)
- Enclosure options – Powder-coated steel (white, IP40) or IP65 plastic (suitable for outdoor/garages)



The main technical parameters

Technical Specifications	
Enclosure Size	4 Module
Enclosure Material	Metal/Plastic
Mounting Type	Surface mount on 35mm DIN rail
IP Rating	IP40 (indoor)/IP65 (waterproof outdoor)
Pole	2P
Rated Voltage	230V AC 50/60Hz
Rated Voltage	1200V
Rated Current (In)	32A/40A
RCBO Type	A-Type, Bi-directional, Double Pole (DP)
Tripping Curve	B-Curve/C-Curve (3-5× In)
Residual Operating Current (IΔn)	30mA
Short Circuit Rating (Icn)	6kA
Surge Protection (SPD)	
SPD Type	Type 2 (1P+N)
Surge Rating	20kA / 40kA (Imax / 8/20μs)
Protection Mode	L-N, L-PE, N-PE
Visual Status Indicator	Green/Yellow = Normal, Red = Replace
Terminals	
Incoming Terminal Capacity	25mm ² max
Terminal Type	Cage clamp
Cable Entry Knock-outs	25mm and 32mm (top and bottom)

The main technical parameters

Environmental	
Operating Temperature	-25°C to +40°C
Storage Temperature	-40°C to +70°C
Standards & Compliance	
Product Standard	BS EN 61439-3 (Distribution boards)
RCBO Standard	BS EN 61009-1
SPD Standard	BS EN 61643-11
Applications	
Primary Applications	EV charging stations (up to 9kW single-phase)
Suitable Installations	Residential and light commercial

Part Numbers

EV32B	4 Module Board, 32A B Curve Double Pole Bi-directional RCBO with SPD
EV40B	4 Module Board, 40A B Curve Double Pole Bi-directional RCBO with SPD
EV32B-P	4 Module IP Plastic Board, 32A B Curve Double Pole Bi-directional RCBO with SPD
EV40B-P	4 Module IP Plastic Board, 40A B Curve Double Pole Bi-directional RCBO with SPD

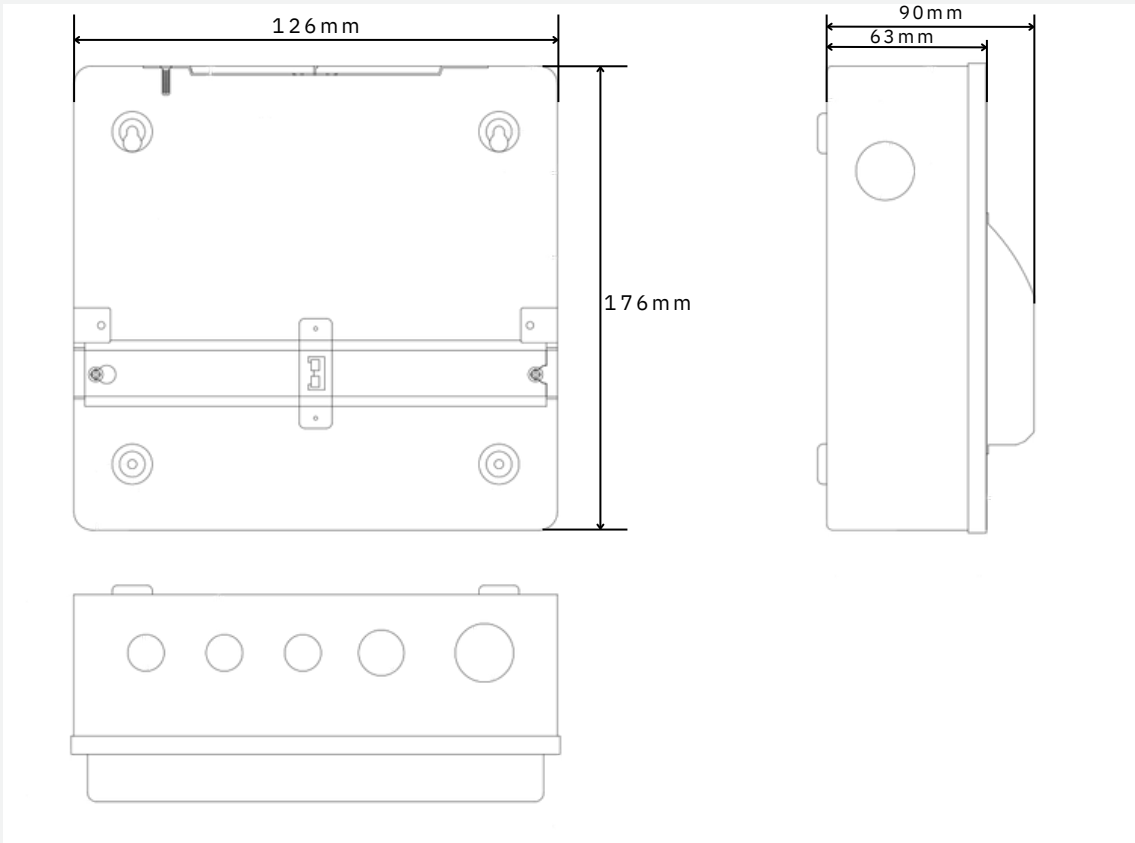
EV32B, EV40B, EV32B-P, EV40B-P

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Product and installation dimensions(MM)

EV32B EV40B



EV32B-P EV40B-P

