



# Consumer unit L · PV + EV · flush-mounted

Large house of 150–250 m<sup>2</sup>, usually two-storey — separate circuits for each floor, the garage and the garden, with solar PV and an EV charger in one board.

## PLN 8,819.10

incl. 23% VAT · PLN 7,170.00 excl. VAT · excluding delivery

Size **Size L — large house of 150–250 m<sup>2</sup>, about 22 circuits**  
Enclosure **72-module enclosure — room for the inverter, home battery and EV charger**

Some items have a preliminary price (new in our range) — we will confirm it when we check your order.

22 circuits in 4 groups of 4-pole Type A RCDs (30 mA), induction hob on a 3-phase circuit, T1+T2 surge protection. Solar PV (inverter section, DC combiner box, battery section) and an 11 kW charger with a Type B RCD. 72-module enclosure (4 rows × 18) — room for the inverter, home battery and EV charger. Devices take 61 — 15% spare.

### MOUNTING AND DIMENSIONS

Mounting **flush-mounted — back box built into the wall, frame with door**  
Wall opening **560 × 780 mm, depth 127 mm**  
Minimum wall thickness **150 mm**  
Frame with door (visible) **620 × 810 mm**

Approximate dimensions — we confirm them against the data sheet of the selected enclosure in the order confirmation (before you cut the recess).



### CONTENTS

72-module enclosure · 4 rows · devices take 61

|                                                                                                    |         |
|----------------------------------------------------------------------------------------------------|---------|
| Main switch, surge protection device, phase indicators, N/PE terminal bars                         | 8 mod.  |
| 4-pole Type A residual current devices (RCDs) × 4 (circuit groups)                                 | 16 mod. |
| Circuit breakers (MCBs) × 22 (sockets, lighting, appliances; induction hob — 3-phase)              | 24 mod. |
| Flush-mounted enclosure (back box for building into the wall, frame with door)                     | —       |
| Solar PV — inverter AC section                                                                     | 3 mod.  |
| Solar PV — DC combiner box, 2 MPPT — separate enclosure: Solar PV — DC combiner box, 2 MPPT — IP65 | —       |
| Home battery — battery / hybrid inverter section                                                   | 3 mod.  |
| EV charging — 11 kW                                                                                | 7 mod.  |
| Type B RCD for the charger                                                                         | —       |

### SPECIFICATIONS

DIN modules: **61 used of 72 (spare 11)** Circuits: **22 (max. 30 in this enclosure)**  
Residual current devices (RCDs): **4 × 4-pole 40 A, 30 mA, Type A — circuits split into groups**  
Surge protection device (SPD): **T1+T2**

Lead time: 5–10 working days from receipt of the deposit.

Included: wiring diagram, circuit chart, test report, EU declaration of conformity, 24-month warranty. Built to EN 61439-3 (PN-EN 61439-3). Technical documents are issued in Polish.

<https://svalcon.co.uk/products/1-pv-ev?mounting=flush>

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## CIRCUITS AND RCD GROUPS

Typical set of circuits for this size (board model shared by the shop and the workshop). Cable sizes are indicative — selected by length and installation method.

Circuit names and the diagram are in Polish.

| Ref. | Circuit / load                                             | Protection | Poles | Phase | Cable | RCD |
|------|------------------------------------------------------------|------------|-------|-------|-------|-----|
| F1   | Gniazda — kuchnia (blat)                                   | B16        | 1P    | L3    | 3×2,5 | Q1  |
| F2   | Łazienka — gniazda                                         | B16        | 1P    | L1    | 3×2,5 | Q1  |
| F3   | Pralka                                                     | B16        | 1P    | L3    | 3×2,5 | Q1  |
| F4   | Gniazda — sypialnie                                        | B16        | 1P    | L2    | 3×2,5 | Q1  |
| F5   | Oświetlenie zewnętrzne                                     | B10        | 1P    | L3    | 3×1,5 | Q1  |
| F6   | Gniazda — sypialnia główna                                 | B16        | 1P    | L3    | 3×2,5 | Q1  |
| F7   | Oświetlenie — strefa dzienna                               | B10        | 1P    | L1    | 3×1,5 | Q2  |
| F8   | Zmywarka                                                   | B16        | 1P    | L2    | 3×2,5 | Q2  |
| F9   | Oświetlenie — pomieszczenia gospodarcze                    | B10        | 1P    | L1    | 3×1,5 | Q2  |
| F10  | Łazienka 2 — gniazda                                       | B16        | 1P    | L3    | 3×2,5 | Q2  |
| F11  | Gniazda — piętro (pokoje)                                  | B16        | 1P    | L2    | 3×2,5 | Q2  |
| F12  | Rezerwa 2                                                  | B16        | 1P    | L2    | 3×2,5 | Q2  |
| F13  | Gniazda — salon                                            | B16        | 1P    | L2    | 3×2,5 | Q3  |
| F14  | Piekarnik                                                  | B16        | 1P    | L1    | 3×2,5 | Q3  |
| F15  | Gniazda zewnętrzne / ogród (IP44)                          | B16        | 1P    | L3    | 3×2,5 | Q3  |
| F16  | Oświetlenie — piętro                                       | B10        | 1P    | L1    | 3×1,5 | Q3  |
| F17  | Garaż / kotłownia                                          | B16        | 1P    | L1    | 3×2,5 | Q3  |
| F18  | Płyta indukcyjna (3-fazowa)                                | B16        | 3P    | L1–L3 | 5×2,5 | Q4  |
| F19  | Oświetlenie — sypialnie i korytarz                         | B10        | 1P    | L2    | 3×1,5 | Q4  |
| F20  | Suszarka                                                   | B16        | 1P    | L2    | 3×2,5 | Q4  |
| F21  | Gniazda — pokój / biuro                                    | B16        | 1P    | L1    | 3×2,5 | Q4  |
| F22  | Rezerwa                                                    | B16        | 1P    | L1    | 3×2,5 | Q4  |
| F23  | Falownik PV — strona AC — Ochrona różnicowoprądowa w...    | C20        | 3P    | L1–L3 | 5×4   | —   |
| F24  | Magazyn energii / falownik hybrydowy (przygotowanie) — ... | C20        | 3P    | L1–L3 | 5×4   | —   |
| F25  | Ładowarka samochodu (wallbox) 11 kW                        | B16        | 3P    | L1–L3 | 5×4   | Q5  |

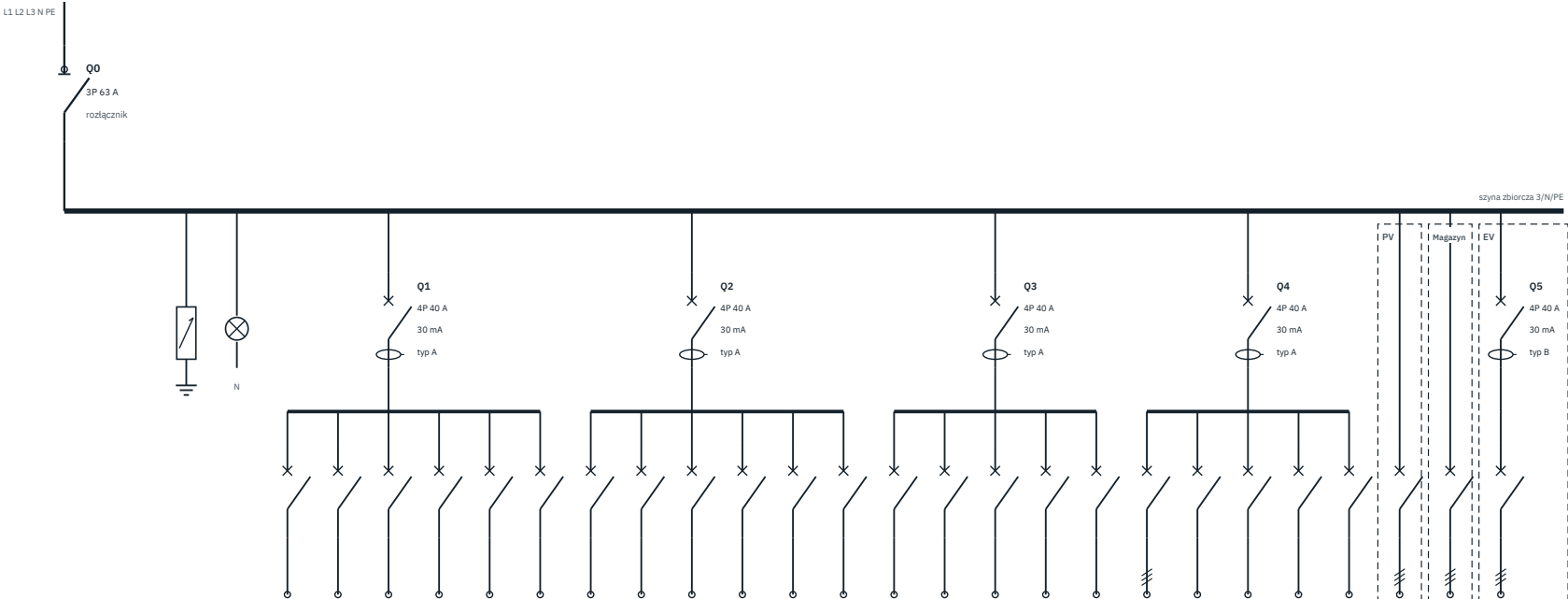
## RCD GROUPS

- Q1 RCD 4P 40 A 30 mA typ A: F1, F2, F3, F4, F5, F6
- Q2 RCD 4P 40 A 30 mA typ A: F7, F8, F9, F10, F11, F12
- Q3 RCD 4P 40 A 30 mA typ A: F13, F14, F15, F16, F17
- Q4 RCD 4P 40 A 30 mA typ A: F18, F19, F20, F21, F22
- Q5 RCD 4P 40 A 30 mA typ B (ładowarka): F25

Schemat jednokreskowy – Consumer unit L · PV + EV · flush-mounted

marka wg dostępności · podtynkowa · nr wzór

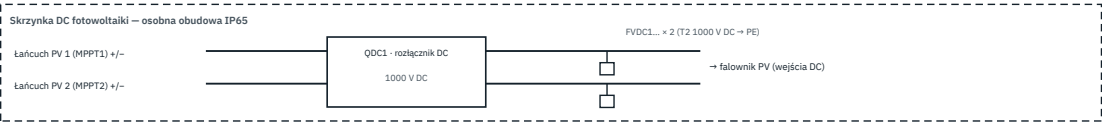
Zasilanie z licznika: 3/N/PE ~ 400/230 V 50 Hz · sieć TN-C-S · zabezpieczenie przedlicznikowe gG / B ≤ 32 A (typowo 25–32 A, wg warunków przyłączenia)



| Oznaczenie     | FV1   | H1     | F1    | F2    | F3    | F4    | F5    | F6    | F7    | F8    | F9    | F10   | F11   | F12   | F13   | F14   | F15   | F16   | F17   | F18   | F19   | F20   | F21   | F22   | F23   | F24   | F25   |     |
|----------------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----|
| Zabezpieczenie | T1+T2 | —      | B16   | B16   | B16   | B16   | B10   | B16   | B10   | B16   | B10   | B16   | B16   | B16   | B16   | B16   | B16   | B10   | B16   | B16   | B10   | B16   | B16   | B16   | C20   | C20   | B16   |     |
| Bieguny        | 3+1   | 3 × 1P | 1P    | 1P    | 1P    | 1P    | 1P    | 1P    | 1P    | 1P    | 1P    | 1P    | 1P    | 1P    | 1P    | 1P    | 1P    | 1P    | 1P    | 3P    | 1P    | 1P    | 1P    | 1P    | 3P    | 3P    | 3P    |     |
| Faza           | L1–L3 | L1–L3  | L3    | L1    | L3    | L2    | L3    | L3    | L1    | L2    | L1    | L3    | L2    | L2    | L2    | L1    | L3    | L1    | L1    | L1–L3 | L2    | L2    | L1    | L1    | L1–L3 | L1–L3 | L1–L3 |     |
| Przewód [mm²]  | —     | —      | 3×2,5 | 3×2,5 | 3×2,5 | 3×2,5 | 3×1,5 | 3×2,5 | 3×1,5 | 3×2,5 | 3×1,5 | 3×2,5 | 3×2,5 | 3×2,5 | 3×2,5 | 3×2,5 | 3×2,5 | 3×1,5 | 3×2,5 | 5×2,5 | 3×1,5 | 3×2,5 | 3×2,5 | 3×2,5 | 3×2,5 | 5×4   | 5×4   | 5×4 |
| Moc szac. [kW] | —     | —      | 2     | 2     | 2,2   | 1     | 0,2   | 1     | 0,4   | 2     | 0,2   | 2     | 1     | —     | 1,5   | 3     | 1     | 0,4   | 1,5   | 7,2   | 0,3   | 2,5   | 1     | —     | —     | —     | 11    |     |

Odbiornik

- Ogranicznik przepięć → PE
- Lampki obecności faz
- Gniazda — kuchnia (blat)
- Lazienka — gniazda
- Pralka
- Gniazda — sypialnie
- Oświetlenie zewnętrzne
- Gniazda — sypialnie główna
- Oświetlenie — strefa dzienna
- Zmywarka
- Oświetlenie — pomieszczenia gospodarcze
- Lazienka 2 — gniazda
- Gniazda — piętro (pokoje)
- Rezerwa 2
- Gniazda — salon
- Piekarnik
- Gniazda zewnętrzne / ogród (TP44)
- Oświetlenie — piętro
- Garaz / kotłownia
- Płyta indukcyjna (3-fazowa)
- Oświetlenie — sypialnie i korytarz
- Suszarka
- Gniazda — pokój / biuro
- Rezerwa
- Falownik PV — strona AC
- Magazyn energii / falownik hybrydowy (gr—)
- Ladownia samochodu (walizki) 11 kW



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Nr wzór · marka wg dostępności · obudowa — (6 × 12 mod.)

Wersja karta 2026-10-14 · 2026-10-25 · arkusz 1/1

SZKIC — do weryfikacji przez elektryka uprawnionego