# Consumer unit L · PV + EV · door: oak

Large house of 150–250 m², usually two-storey — separate circuits for each floor, the garage and the garden, with solar PV and an EV charger in one board.

## PLN 8,966.70

incl. 23% VAT · PLN 7,290.00 excl. VAT · excluding delivery

| | |
|---|---|
| Size | **Size L — large house of 150–250 m², 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

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|---|---|
| Mounting | **surface-mounted — enclosure on the wall** |
| Enclosure dimensions | **565 × 750 × 151 mm (W × H × D)** |

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. |
| Door: oak | — |
| 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

Door: **Oak — Wood-effect veneer in natural oak.**

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/l-pv-ev

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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

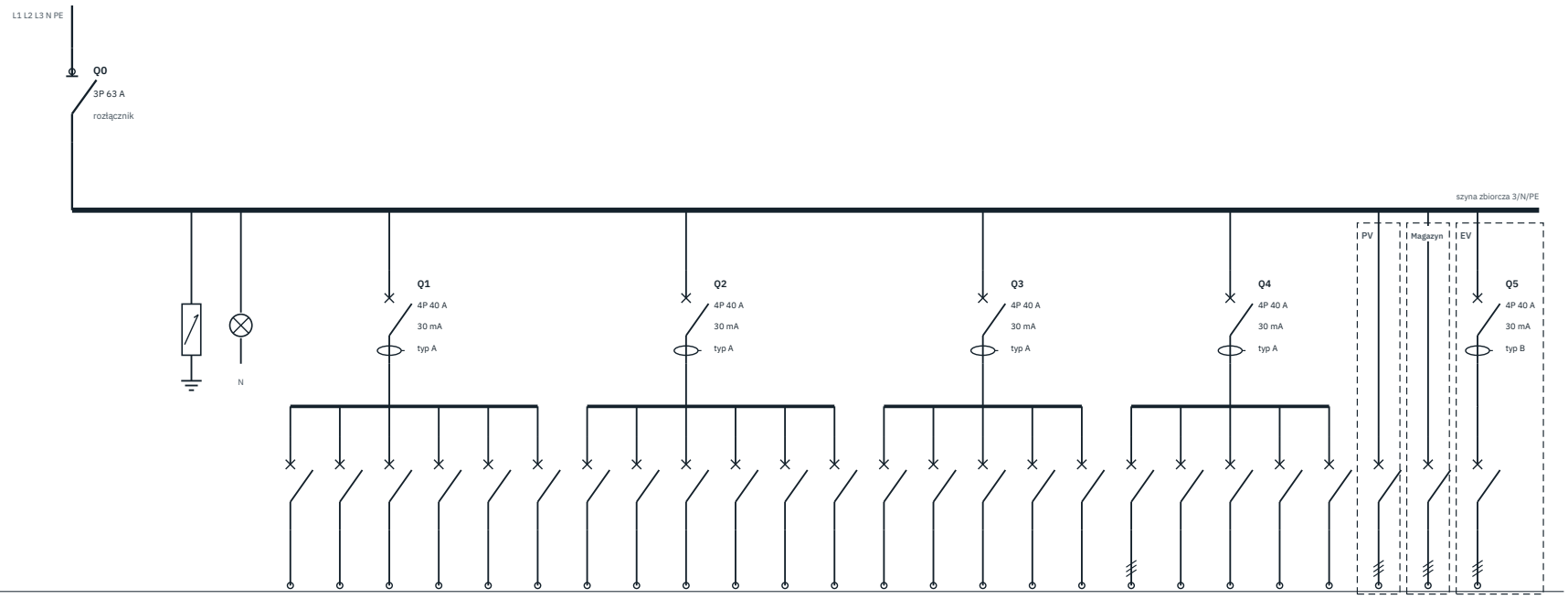
| | |
|---|---|
| Q1 | RCD 4P 40 A 30 mA typ A: F1, F2, F3, F4, F5, F6 |
| Q2 | RCD 4P 40 A 30 mA typ A: F7, F8, F9, F10, F11, F12 |
| Q3 | RCD 4P 40 A 30 mA typ A: F13, F14, F15, F16, F17 |
| Q4 | RCD 4P 40 A 30 mA typ A: F18, F19, F20, F21, F22 |
| Q5 | RCD 4P 40 A 30 mA typ B (ładowarka): F25 |

# SIMPLIFIED DIAGRAM

## Schemat jednokreskowy — Consumer unit L · PV + EV · door: oak

marka wg dostępności · natynkowa · 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 | 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)
- Łazienka — gniazda
- Pralka
- Gniazda — sypialnie
- Oświetlenie zewnętrzne
- Gniazda — sypialnia główna
- Oświetlenie — strefa dzienna
- Zmywarka
- Oświetlenie — pomieszczenia gospodarcze
- Łazienka 2 — gniazda
- Gniazda — piętro (pokoje)
- Rezerwa 2
- Gniazda — salon
- Piekarnik
- Gniazda zewnętrzne / ogród (IP44)
- Oświetlenie — piętro
- Garaż / kotłownia
- Płyta indukcyjna (3-fazowa)
- Oświetlenie — sypialnie i korytarz
- Suszarka
- Gniazda — pokój / biuro
- Rezerwa
- Falownik PV — strona AC
- Magazyn energii / falownik hybrydowy (pr…
- Ładowarka samochodu (wallbox) ≥1 kW

**Skrzynka DC fotowoltaiki — osobna obudowa IP65**

**Svalcon · Consumer unit L · PV + EV · door: oak**

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**

Diagram from the documentation generator (v1.20) without catalogue numbers — device brand by availability (Hager, Schneider Electric, Eaton); full documentation with numbers comes with the board.