



# Consumer unit M · PV + EV · door: tinted glass

Single-family house up to about 150 m<sup>2</sup> (usually single-storey), with solar PV and an EV charger in one board.

## PLN 9,151.20

incl. 23% VAT · PLN 7,440.00 excl. VAT · excluding delivery

|           |                                                                                                                                                              |
|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Size      | <b>Size M — single-family house up to approx. 150 m<sup>2</sup>, about 16 circuits</b>                                                                       |
| Enclosure | <b>72-module enclosure — room for the inverter, home battery and EV charger; one size up from the Standard version (48 modules), same number of circuits</b> |

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

16 circuits in 3 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; one size up from the Standard version (48 modules), same number of circuits. Devices take 51 — 29% spare.

### MOUNTING AND DIMENSIONS

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

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 51

|                                                                                                    |         |
|----------------------------------------------------------------------------------------------------|---------|
| Main switch, surge protection device, phase indicators, N/PE terminal bars                         | 8 mod.  |
| 4-pole Type A residual current devices (RCDs) × 3 (circuit groups)                                 | 12 mod. |
| Circuit breakers (MCBs) × 16 (sockets, lighting, appliances; induction hob — 3-phase)              | 18 mod. |
| Door: tinted glass                                                                                 | —       |
| 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: **Tinted glass — White frame with tinted glass — you can see the LEDs and device status without opening the door.**

DIN modules: **51 used of 72 (spare 21)**

Circuits: **16 (max. 30 in this enclosure)**

Residual current devices (RCDs): **3 × 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/m-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 — salon                                            | B16        | 1P    | L3    | 3×2,5 | Q1  |
| F2   | Gniazda — kuchnia (blat)                                   | B16        | 1P    | L3    | 3×2,5 | Q1  |
| F3   | Łazienka — gniazda                                         | B16        | 1P    | L1    | 3×2,5 | Q1  |
| F4   | Pralka                                                     | B16        | 1P    | L3    | 3×2,5 | Q1  |
| F5   | Oświetlenie zewnętrzne                                     | B10        | 1P    | L3    | 3×1,5 | Q1  |
| F6   | Płyta indukcyjna (3-fazowa)                                | B16        | 3P    | L1–L3 | 5×2,5 | Q2  |
| F7   | Oświetlenie — sypialnie i korytarz                         | B10        | 1P    | L1    | 3×1,5 | Q2  |
| F8   | Gniazda — sypialnie                                        | B16        | 1P    | L2    | 3×2,5 | Q2  |
| F9   | Suszarka                                                   | B16        | 1P    | L2    | 3×2,5 | Q2  |
| F10  | Gniazda zewnętrzne / ogród (IP44)                          | B16        | 1P    | L1    | 3×2,5 | Q2  |
| F11  | Oświetlenie — strefa dzienna                               | B10        | 1P    | L3    | 3×1,5 | Q3  |
| F12  | Piekarnik                                                  | B16        | 1P    | L1    | 3×2,5 | Q3  |
| F13  | Zmywarka                                                   | B16        | 1P    | L2    | 3×2,5 | Q3  |
| F14  | Gniazda — pokój / biuro                                    | B16        | 1P    | L2    | 3×2,5 | Q3  |
| F15  | Oświetlenie — pomieszczenia gospodarcze                    | B10        | 1P    | L3    | 3×1,5 | Q3  |
| F16  | Rezerwa                                                    | B16        | 1P    | L1    | 3×2,5 | Q3  |
| F17  | Falownik PV — strona AC — Ochrona różnicowoprądowa w...    | C20        | 3P    | L1–L3 | 5×4   | —   |
| F18  | Magazyn energii / falownik hybrydowy (przygotowanie) — ... | C20        | 3P    | L1–L3 | 5×4   | —   |
| F19  | Ładowarka samochodu (wallbox) 11 kW                        | B16        | 3P    | L1–L3 | 5×4   | Q4  |

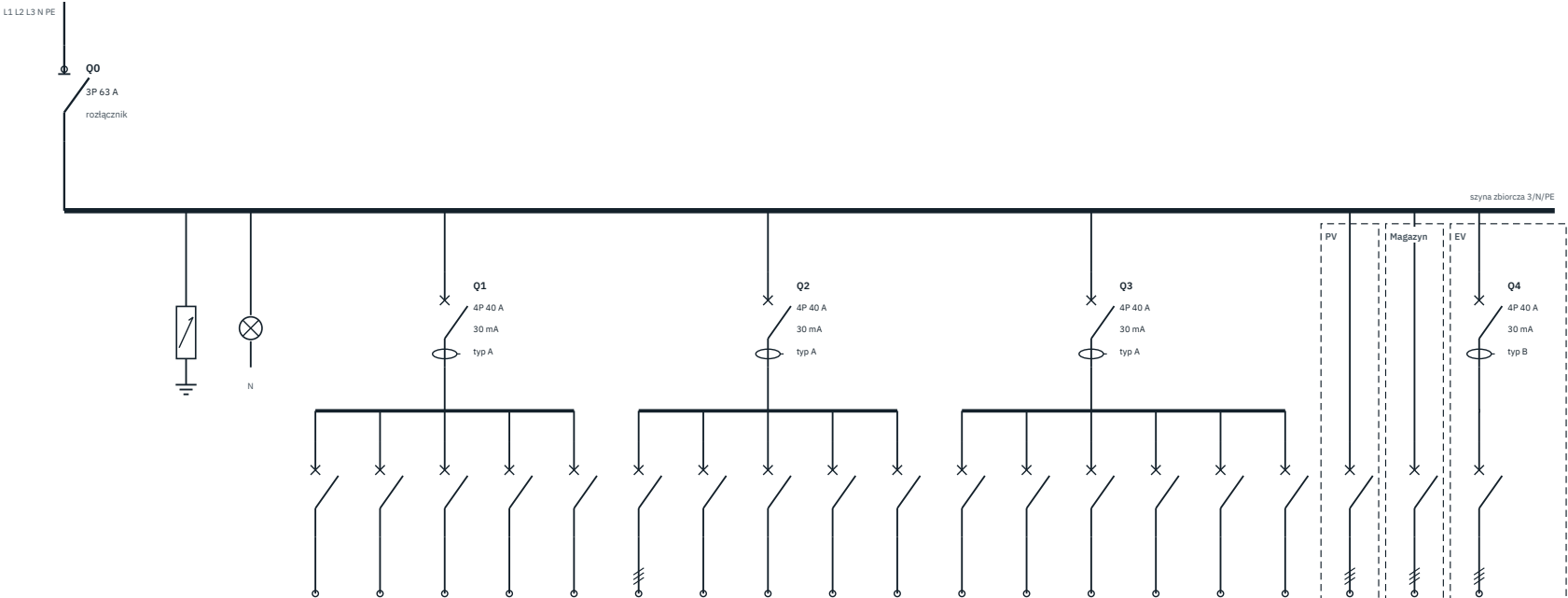
## RCD GROUPS

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

Schemat jednokreskowy – Consumer unit M · PV + EV · door: tinted glass

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   |
|----------------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Zabezpieczenie | T1+T2 | —      | B16   | B16   | B16   | B16   | B10   | B16   | B10   | B16   | B16   | B16   | B10   | B16   | B16   | B16   | B10   | B16   | C20   | C20   | B16   |
| Bieguny        | 3+1   | 3 × 1P | 1P    | 1P    | 1P    | 1P    | 1P    | 3P    | 1P    | 1P    | 1P    | 1P    | 1P    | 1P    | 1P    | 1P    | 1P    | 1P    | 3P    | 3P    | 3P    |
| Faza           | L1–L3 | L1–L3  | L3    | L3    | L1    | L3    | L3    | L1–L3 | L1    | L2    | L2    | L1    | L3    | L1    | L2    | L2    | L3    | L1    | L1–L3 | L1–L3 | L1–L3 |
| Przewód [mm²]  | —     | —      | 3×2,5 | 3×2,5 | 3×2,5 | 3×2,5 | 3×1,5 | 5×2,5 | 3×1,5 | 3×2,5 | 3×2,5 | 3×2,5 | 3×1,5 | 3×2,5 | 3×2,5 | 3×2,5 | 3×1,5 | 3×2,5 | 5×4   | 5×4   | 5×4   |
| Moc szac. [kW] | —     | —      | 1,5   | 2     | 2     | 2,2   | 0,2   | 7,2   | 0,3   | 1     | 2,5   | 1     | 0,4   | 3     | 2     | 1     | 0,2   | —     | —     | —     | 11    |

Odbiornik

Ogranicznik przepięć → PE

Lampki obecności faz

Gniazda – salon

Gniazda – kuchnia (bat)

Łazienka – gniazda

Pralnia

Oświetlenie zewnętrzne

Płyta indukcyjna (3-fazowa)

Oświetlenie – sypialnie i korytarz

Gniazda – sypialnie

Suszarka

Gniazda zewnętrzne / ogród (TP44)

Oświetlenie – strefa dzienna

Piekarnik

Zmywarka

Gniazda – pokój / biuro

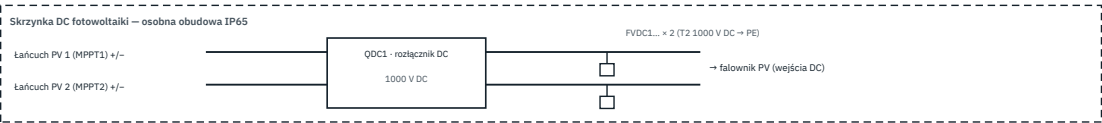
Oświetlenie – pomieszczenia gospodarcze

Rezerwa

Falownik PV – strona AC

Magazyn energii / falownik hybrydowy (gr...)

Ładownia samochodu (kwaliboz 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