

Israeli Home Electrical Distribution Box Configuration Table

Article Overview

Israeli home electrical panels typically include a main breaker, ground-fault interrupter (RCD), and individual circuit breakers for each line, with configurations varying by single-phase or three-phase service.

Main Components

o Main Breaker (MCB)

- o Controls the total current entering the home from the electric meter.
- o Single-phase homes usually have 25A or 40A main breakers; older homes may still have 25A.
- o Three-phase homes have three linked breakers, starting at 25A and going up to 100A or more .

o Ground-Fault Interrupter (RCD/GFI)

- o Protects against leakage currents and reduces the risk of electric shock.
- o Typically installed after the main breaker and before individual line breakers .

o Individual Circuit Breakers (MCBs)

- o Each breaker protects a specific circuit, such as lighting, sockets, or appliances.
- o Rated according to the expected load, commonly 10A, 16A, 20A, or 32A.
- o Can be single-pole for single-phase circuits or three-pole for three-phase circuits .

o Additional Components

- o Surge protection devices to guard against voltage spikes.
- o Timers or contactors for specialized circuits (e.g., water heaters, outdoor lighting).
- o Some panels include modular slots for future expansion .

Typical Configuration Table

Component	Function	Typical Rating	Notes	Main Breaker Limits	total current
25A-40A (single-phase), 25A-100A+ (three-phase)	Protects the home and utility service	RCD / GFI	Ground-fault protection sensitivity	30mA	
Lighting Circuit	Protects people from electric shock	MCB	Protects lighting lines	10A-16A	Single-pole
Socket Circuit	Protects general outlets	MCB	16A-20A	Single-pole	High-Power
Appliance MCB	Protects appliances like ovens, AC	20A-32A	Single or three-pole depending on appliance	Surge Protector	Protects against voltage spikes
As per device	Optional but recommended	Contactor / Timer	Controls scheduled loads	As per load	Optional for water heaters, pumps

Notes on Installation

- o The electric meter is the responsibility of the Israel Electric Company; everything downstream, including the panel, is the homeowner's responsibility .

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- o Panels are usually modular, allowing for expansion or replacement of breakers.
- o Single-phase service is common in apartments, while three-phase service is typical in larger homes or commercial units .
- o Modern panels may include IP-rated enclosures for moisture protection, especially in bathrooms or outdoor installations . This configuration ensures compliance with Israeli electrical standards, provides safety for residents, and allows for efficient management of household electrical loads.

Schneider Electric New Unica socket-outlet NU304718 is a mechanism in color white. The outlet pole configuration of this socket

The electric facility will be comprised of sea atmosphere resistant systems and equipment (salt, corrosion, hot atmosphere, high

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