Standard parts for Greek waterproof electrical distribution boxes

Overview

Understand distribution boxes (DB boxes) in 5 minutes. Learn about types, components, functions, and uses. Find the perfect DB box for your needs.

Key Takeaways

Greek waterproof electrical distribution boxes typically use IP65-rated enclosures with ABS or PC construction, TH35 DIN rails, transparent covers, and modular configurations compliant with IEC standards.

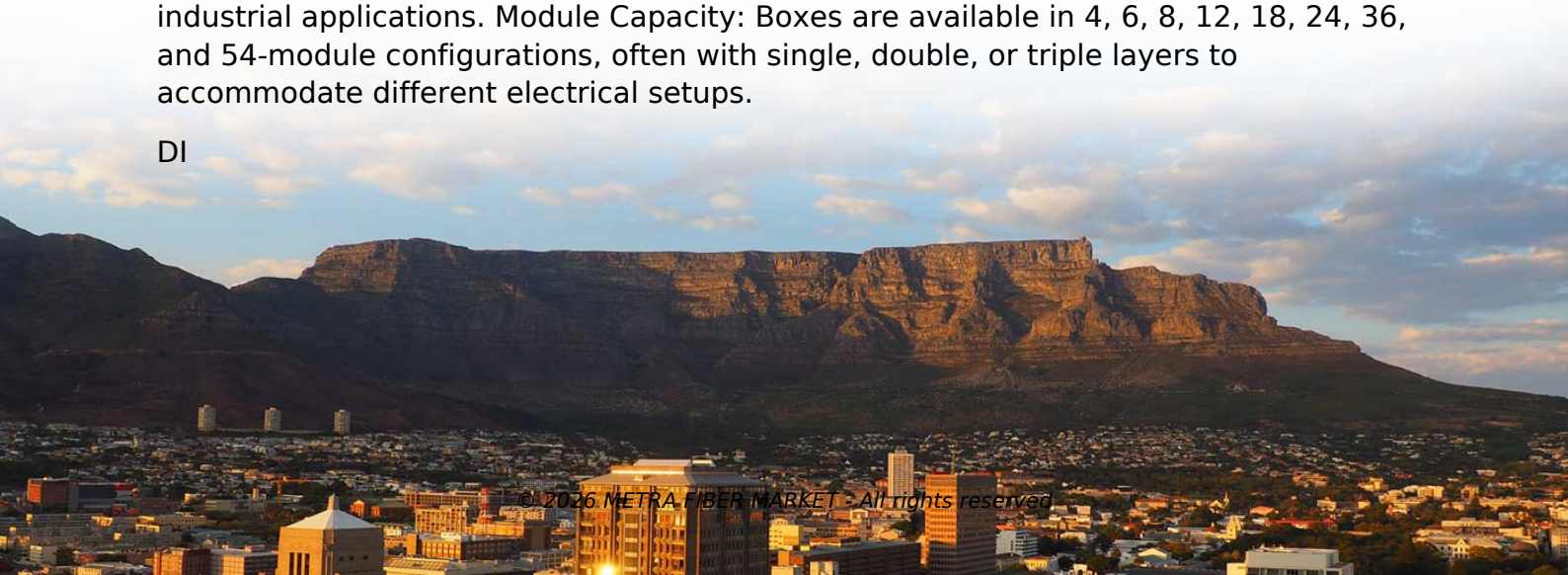
Key Components and Materials

Enclosure Material: Most waterproof distribution boxes are made from ABS or polycarbonate (PC) engineering plastics, offering high impact resistance, UV protection, and durability for outdoor or humid environments (ETEK, GEYA, IDE).

I

P Rating: Standard waterproof boxes in Greece are usually IP65, ensuring dust-tight protection and resistance to low-pressure water jets, suitable for outdoor and industrial applications. Module Capacity: Boxes are available in 4, 6, 8, 12, 18, 24, 36, and 54-module configurations, often with single, double, or triple layers to accommodate different electrical setups.

DI



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N Rails: TH35x7. 5 mm symmetrical rails are standard for mounting circuit breakers and other modular devices. Single-row boxes use one rail, while multi-row boxes have compact frames for multiple rails.

Transparent Covers: Many boxes feature PC transparent windows with UV protection, allowing visual inspection of internal components without opening the enclosure. Sealing and Latches: Waterproof performance is enhanced with rubber gaskets and push-to-open or latch mechanisms, preventing water ingress and ensuring secure closure. Internal Components: Some boxes include pre-integrated copper terminals for reliable wiring, cable trays, and conduit entry points for flexible installation.

Standards Compliance: Greek installations typically follow IEC60529, IEC62262, IEC60695-2-10, and the Low Voltage Directive 2014/35/EU, ensuring safety, fire resistance, and mechanical protection.

Applications

These boxes are widely used in industrial facilities, residential buildings, commercial centers, photovoltaic systems, and EV charging stations, providing reliable protection against dust, rain, and mechanical impacts.

Summary

For Greek waterproof electrical distribution boxes, the standard parts include: ABS or PC enclosures with IP65 ratingTH35x7. 5 DIN rails for modular devicesTransparent PC covers with UV protectionRubber gaskets and secure latchesPre-integrated copper terminals and cable entry pointsCompliance with IEC and EU low-voltage standardsModular configurations from 4 to 54 ways, single to triple layers These components ensure durable, safe, and flexible electrical distribution suitable for both indoor and outdoor applications in Greece.

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IDE Electric

Transparent window: Recommended for outdoor use: UV protection according to the ISO 4892-2 standard, method A: 1000 h. Supplied in individual packaging. When several items are sent together,

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