EKDB18

IP65 Wall Mounting Metal Enclosures ---------- Standard_IEC62208





Product Overview

EKDB18 Series is a new-generation sheet-steel electrical enclosure engineered for safe, efficient power distribution and control. Combining precision fabrication, sleek industrial aesthetics, and robust environmental protection up to IP65, it provides an exceptional solution for indoor and outdoor commercial, industrial, and infrastructure applications.

Features

- **IP65 Ingress Protection**
  Seamless PU foam gasket paired with an integrated rain gutter effectively blocks water jets, rain, and dust.
- **Waterproof Cam Lock**
  Reliable 90° cam lock with internal gasket ensures smooth operation and watertight door closure.
- **Grid Mounting Plate**
  Galvanized plate with precision grid markings enables quick, accurate layout without manual measuring.
- **Flexible Wall Mounting**
  Pre-punched rear holes and external brackets allow stable standoff mounting in horizontal or vertical orientations.
- **120° Wide Opening**
  Robust concealed hinges provide a 120° swing for easy wiring, inspection, and maintenance.
- **Ergonomic Design**
  Features smooth rounded corners, a recessed door pull for pry-free opening, and durable powder coating.

Typical Applications



Power Distribution & Switchgear Systems



Industrial Automation & Process Control

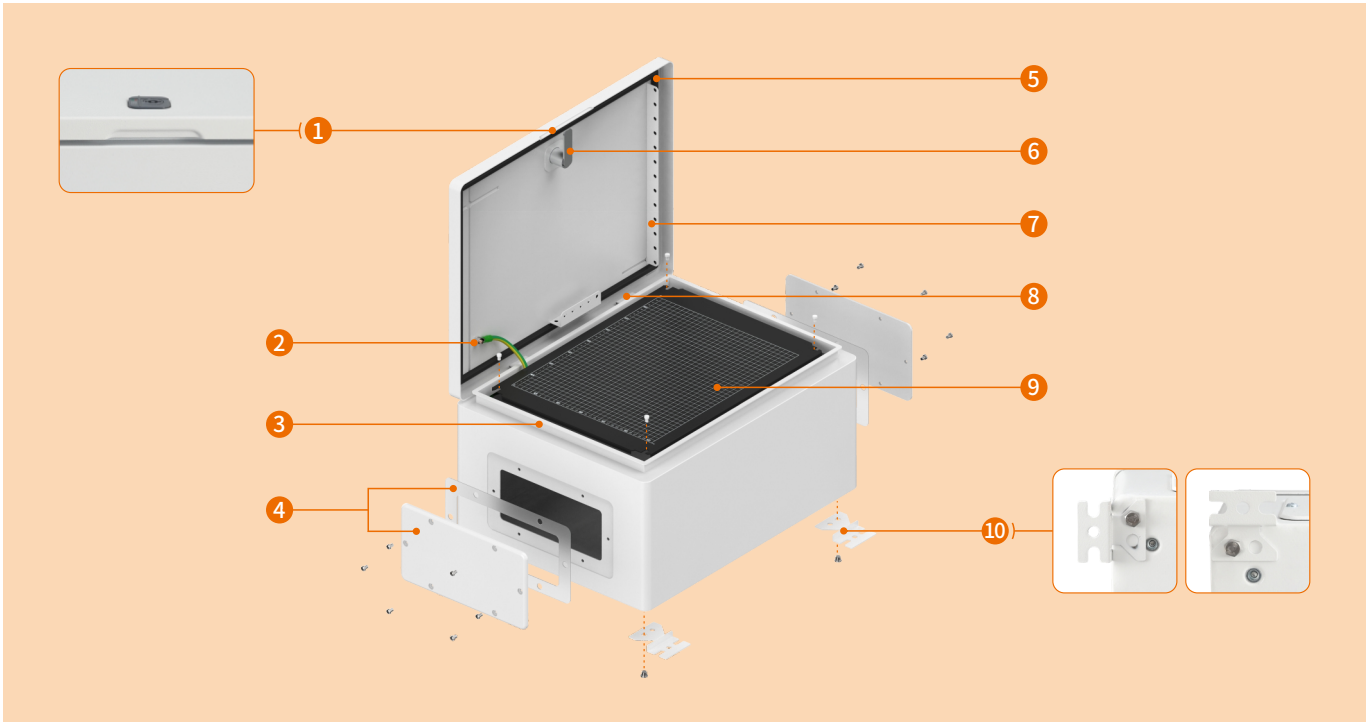


Outdoor Infrastructure & Utilities



HVAC & Pump Station Controls

Product Tips



1 Recessed Door Pull / Finger Grip

Recessed door pull for smooth, pry-free opening

2 Welded Grounding Studs

Welded grounding studs on body and door for secure protective bonding

3 Perimeter Rain Gutter Rim

Perimeter rain gutter rim preventing liquid runoff into the enclosure

4 Removable Gland Plate with Molded Gasket

Detachable bottom gland plate with gasket for easy drilling and cable entry

5 Continuous PU Foam Gasket

Seamless polyurethane foam gasket ensuring IP65 weather resistance

6 Quarter-Turn Cam Lock with Sealing Gasket

Smooth 90° cam latch with gasket for watertight locking

7 Door Reinforcement & Cable Profiles

Welded perforated profiles to reinforce door rigidity and provide cable tie-off points

8 Concealed Removable Hinges

Concealed robust hinges providing 120° opening clearance

9 Grid-Patterned Mounting Plate

Galvanized steel mounting plate with alignment grid

10 External Wall-Mounting Brackets

External mounting brackets supporting horizontal or vertical orientation

Multiple Color Options

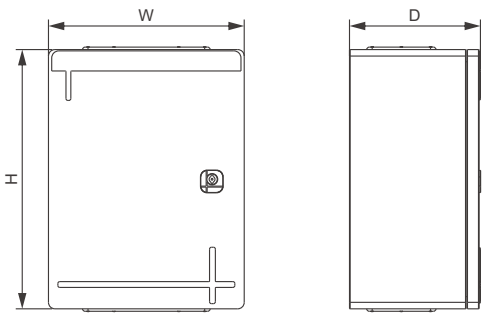
The enclosure body is available in orange, with various decorative strips and matching lock colors.



Technical Data

Standard		IEC/EN 62208
Ingress protection		IP65
Impact resistance		IK10
Rated insulation voltage (Ui)		690V AC
Rated operational voltage (Ue)		240/415V AC (50/60Hz)
Rated current (In)		63-1250A
Installation type		Surface-mounted
Enclosure material		High-grade cold-rolled sheet steel (SPCC)
Steel thickness	Body	1.0-2.0mm
	Door	1.2-2.0mm
Mounting plate		1.2mm
Surface finish		Electrostatic epoxy-polyester powder coating
Standard color		RAL 7035 (light grey) / Custom colors available
Operational temperature range		-25°C to +55°C

Dimension (mm)



Model	Dimension (mm)			Thickness (mm)		
	H	W	D	Door	Body	Mounting plate
EKDB18 3025/16	300	250	160	1.2	1.0/1.2	1.2
EKDB18 4030/16	400	300	160	1.2	1.0/1.2	1.2
EKDB18 4030/20	400	300	200	1.2	1.0/1.2	1.2
EKDB18 5040/16	500	400	160	1.2	1.0/1.2	1.2
				1.5	1.2/1.5	
EKDB18 5040/20	500	400	200	1.2	1.0/1.2	1.2
				1.5	1.2/1.5	
EKDB18 6040/18	600	400	180	1.2	1.0/1.2	1.2
				1.5	1.2/1.5	
EKDB18 6040/20	600	400	200	1.2	1.0/1.2	1.2
				1.5	1.2/1.5	
EKDB18 6050/18	600	500	180	1.2	1.0/1.2	1.2
				1.5	1.2/1.5	
EKDB18 6050/20	600	500	200	1.2	1.0/1.2	1.2
				1.5	1.2/1.5	
EKDB18 7050/18	700	500	180	1.2/1.5	1.2	1.2
				1.5/2.0	1.5	
EKDB18 7050/20	700	500	200	1.2/1.5	1.2	1.2
				1.5/2.0	1.5	
EKDB18 7060/18	700	600	180	1.2/1.5	1.2	1.2
				1.5/2.0	1.5	
EKDB18 7060/20	700	600	200	1.2/1.5	1.2	1.2
				1.5/2.0	1.5	
EKDB18 8060/18	800	600	180	1.5	1.2/1.5	1.2
				2.0	1.5/2.0	
EKDB18 8060/20	800	600	200	1.5	1.2/1.5	1.2
				2.0	1.5/2.0	
EKDB18 9070/20	900	700	200	2.0	2.0	1.2
EKDB18 10080/20	1000	800	200	2.0	2.0	1.2