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Waterproof Enclosure Box

Rev2.0 2022/05/13

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FCDB-EU Distribution Box

Product Application

The FCDB distribution enclosures are manufactured with the highest-quality plastic materials and are available in ABS and Polycarbonate. They have ample space for wiring and a modular capacity from 4 to 54 modules. They are intended for indoor and outdoor use, where enclosures with a high degree of protection and design are required

Technical Specifications

- Material:ABS or PC
- Degree of protection: IP65
- Resistance to impact: Ik08
- Glow wire resistancet: ABS: 650°C   Polycarbonate:750°C.
- Storage temperature:-25°C/+90°C.
- DC Double insulation: Class II

Certifications

CE   DVE

Compliant with the Low Voltage Directive 2014/ 35/UE
Standards: UNE-EN 62208 and UNE-EN 61439-1(as applicable

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Structural features

Base

- Base with double-height providing greater space on the inside for wiring and devices, and a reinforcement rib that delivers greater rigidity.
- The top and bottom have cut-outs for the entry of M40.M32. M25 and M20 metric cables.
- The base has supports for fixing the neutral and earth bars, as well as DIN rail housings and slots on the bottom to secure the mounting plates, rails, bars. etc.
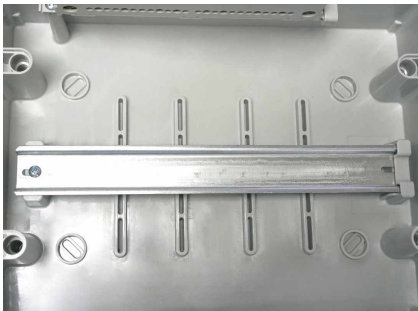

Frame

- The frame has double-height which gives it greater rigidity.
- The frame-base unit is closed by means of -turn captive plastic sealable power screws. It creates a box that can be sealed at four points.
- Covered with a sealing gasket that guarantees the IP protection of the uinit

Window

- Transparent tinted windows with UV protection
- The window is covered with a sealing gasket to guarantee the assembly's IP protection degree
- Reversible 180 horizontal window opening
- New-look lock with the IDE Logotype with pressure-operated opening and closing. The lock can be replaced with key locks or triangular locks inserts supplied as accessories


DIN rail attachment

- For I-row models, the rail is inserted into the side housing without a screw and is secured by means of a screw on the other side
- For models with 2 or more rows, a detachable frame is inserted
- Double rail and frame positioning height as of 12 modules of capacity
- The DIN rail is attached to the base with 4x13 special screws or plastic
- The rails are supplied assembled in the bases
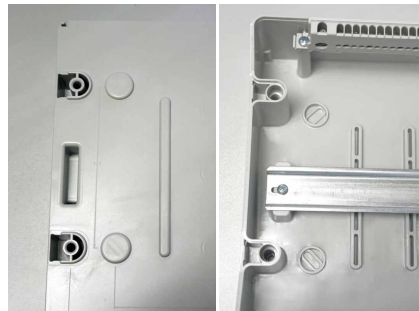
Wall-mounting types

- There are two possible wall-mounting systems:
- Using four screws, directly from the housings located at the bottom of the base provided for this purpose; these housings are covered with hermetic caps (supplied in the accessories bag, ref. 77650) to maintain the degree of protection and dielectric strength
- Through the holes made for the purpose of securing the frame-base, by means of four screws

FCDB-EU Distribution Box
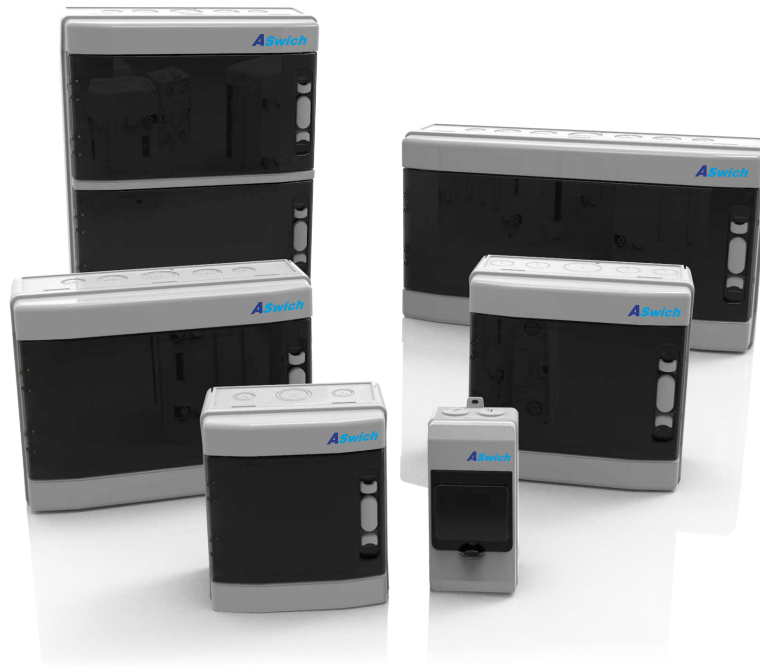
Product series

Surface enclosures with a capacity of 4, 6, 8, 12, 18, 24 modules with transparent window

Material

ABS version
- Halogen-free plastic materials.
- Base and frame: ABS RAL 7035 grey.
- Transparent window: PC tinted window, with UV protection

Polycarbonate version.
- Plastic materials.
- Base and frame: PC RAL 7035 grey.
- Transparent window: PC tinted window, with UV protection
  Recommended for outdoor use.

Supply

- Supplied in individual packaging. When several items are sent together, they are bundled together with transparent film. TH35X7.5 trial rail in enclosures with one row of modules and a compact frame in enclosures with two or more rows of modules. They are supplied assembled in all references.
- Accessory bag:
  - Hermetic caps.
  - Cover-base locking screws.
  - Grey module cover (6 modules)
  - Module identification strips
  - Assembly instructions

Customized and Efficient design

IP65 enclosures for extreme outdoor conditions

Environment friendly

For photovoltaic systems

Easy for logistics and installation

NEW **Optional: Lockable**
High safety factor, providing customized design service

Features

1. Suitable for PV system, UV resistant.
2. Enclosures are made of polycarbonate(PC-ABS)materials. IK08 high impact-resistance and light enoug to easily carry. IP65 rating for outdoor installation, resisting UV radiation, water, dust, reducing corrosion.
3. Through transparency cover, you can observe interior mechanism directly.
4. Reliable material and TUV, CE certificated, in accordance with IEC standard.
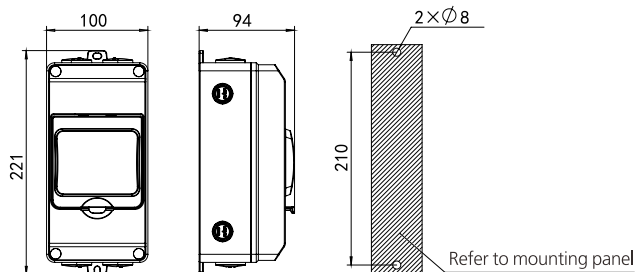5. Waterproof cable connector & MC4 connector are optional.

Select Code

FC **DB** - **EU** - □ **4P** **R**
1   2   3   4   5   6

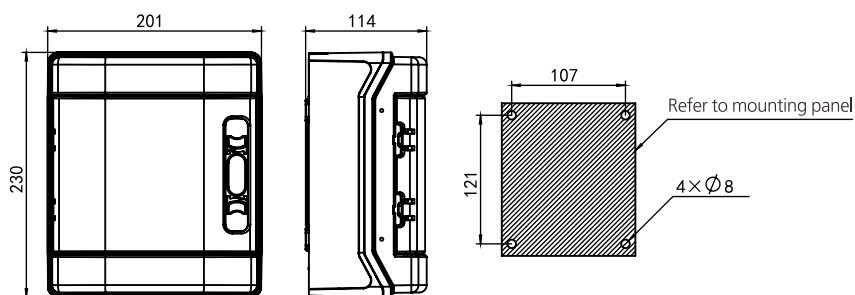| Code	Name	Description
1	FC	ASWICH CODE
2	DB	DISTRIBUTION BOX
3	Type	EU
4	Material	A: ABS P: PC
5	Pole	4P: 4POLE 12P: 12POLE 6P: 6POLE 18P: 18POLE 8P: 8POLE 24P: 24POLE
6	Lockable/Unlock	R:lockable Nil: Unlockable

WATERPROOF ENCLOSURE BOX

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FCDB-EU Distribution Box

1X4 modules

FCDB-EU-A4P

100   94   2×∅8

221   210

Refer to mounting panel

1X6 modules

FCDB-EU-A6P

201   114   107

230   121

Refer to mounting panel

4×∅8

1X8 modules

FCDB-EU-A8P

237   114   133

230   121

Refer to mounting panel

4×∅8
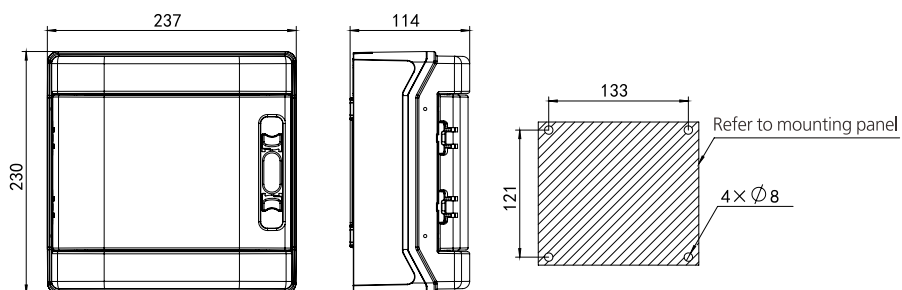
1X12 modules

FCDB-EU-A12P

308　　　114

230

207

121

Refer to mounting panel

4×∅8
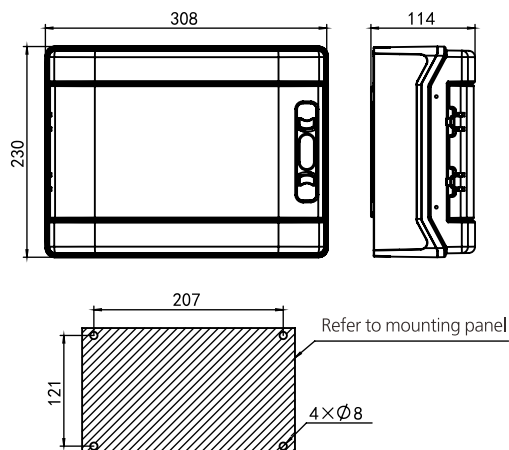
1X18 modules

FCDB-EU-A18P

417　　　114

230

315

121

Refer to mounting panel

4×∅8
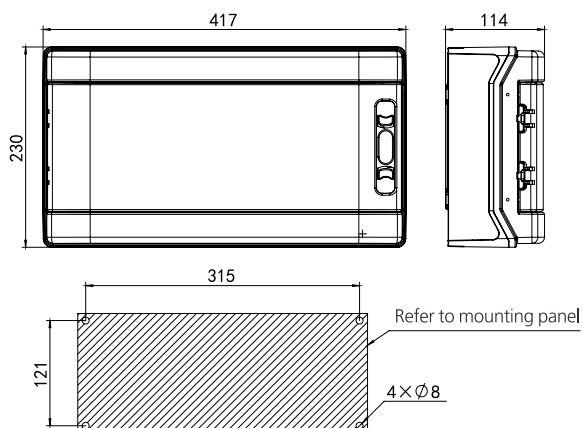
2X12(24) modules

FCDB-EU-A24P
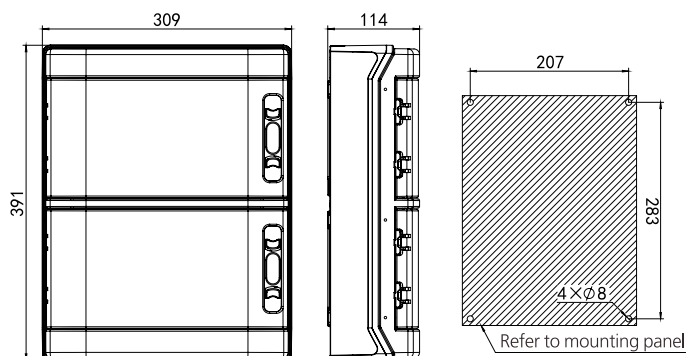
309　　　114

391

207

283

4×∅8

Refer to mounting panel

WATERPROOF ENCLOSURE BOX

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FCDB-EU Distribution Box

IP65 surface distribution boxes(ABS)

Reference No.	No of modules	Dimensions Height X Wdth X Depth	Weight G
FCDB-EU-A4P	1x4 DIN rail	100x221x94	550
FCDB-EU-A6P	1x6 DIN rail	201x230x114	1000
FCDB-EU-A8P	1x8 DIN rail	237x230x114	1400
FCDB-EU-A12P	1x12 DIN rail	308x230x114	1700
FCDB-EU-A18P	1x18 DIN rail	417x230x114	1980
FCDB-EU-A24P	2x12(24)DIN rail	309x391x114	2600

IP65 surface distribution boxes (PC)

Reference No.	No of modules	Dimensions Height X Wdth X Depth	Weight G
FCDB-EU-P4P	1x4 DIN rail	100x221x94	550
FCDB-EU-P6P	1x6 DIN rail	201x230x114	1000
FCDB-EU-P8P	1x8 DIN rail	237x230x114	1400
FCDB-EU-P12P	1x12 DIN rail	308x230x114	1700
FCDB-EU-P18P	1x18 DIN rail	417x230x114	1980
FCDB-EU-P24P	2x12(24)DIN rail	309x391x114	2600

Available in Polycarbonate with a
UV ray-resistant transparent window

IP 65

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FCDB-EUS Distribution Box

Customized and
Efficient design

IP65 enclosures for extreme
outdoor conditions

Environment friendly

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For photovoltaic
systems

Optional: Lockable
NEW
High safety factor,
providing customized
design service

Easy for logistics and
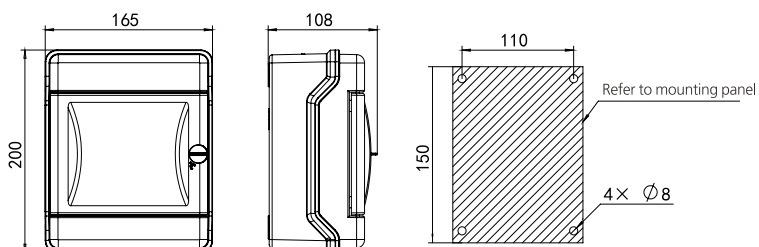installation at site

Features

1. Suitable for PV system, equipped with a surge protector and an isolator,provid-ing isolation, leakage and grounding protection.
2. Enclosures are made of polycarbonate(PC)materials. IK08 high impact-resistance and light enoug to easily carry. IP65 rating for outdoor installation, resisting UV radiation, water, dust, reducing corrosion.
3. Through transparency cover, you can observe interior mechanism directly.
4. Reliable components, with TUV, CE certificated, in accordance with IEC standard.
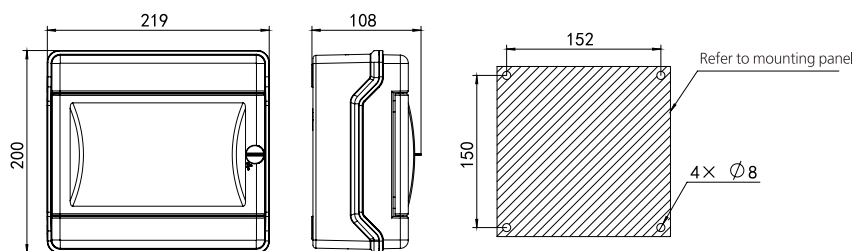5. IP65 cable connector. Waterproof cable connector & MC4 connector are optional.

Select Code

$$\underset{1}{\text{FC}}\ \underset{2}{\text{DB}} - \underset{3}{\text{EUS}} - \underset{4}{\square}\ \underset{5}{\text{4P}}\ \underset{6}{\text{R}}$$

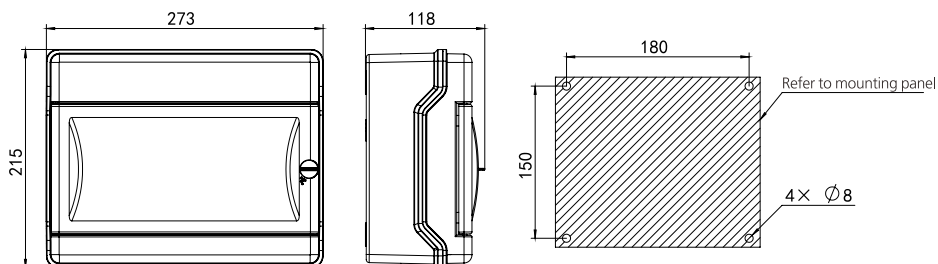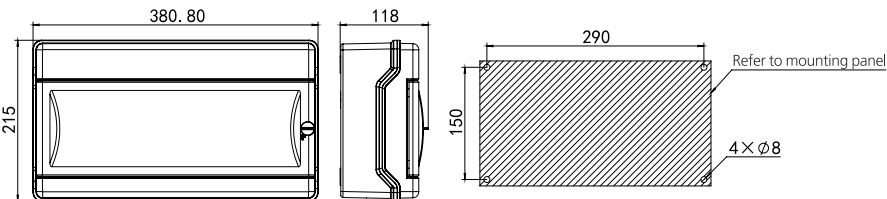| Code	Name	Description
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6	Lockable/Unlock	R:lockable Nil: Unlockable

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FCDB-EUS-P6P

165   108   110

200   150

Refer to mounting panel

4× ⌀8

FCDB-EUS-P9P

219   108   152

200   150

Refer to mounting panel

4× ⌀8

FCDB-EUS-P12P

273   118   180

215   150

Refer to mounting panel

4× ⌀8

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FCDB-EUS Distribution Box

FCDB-EUS-P18P
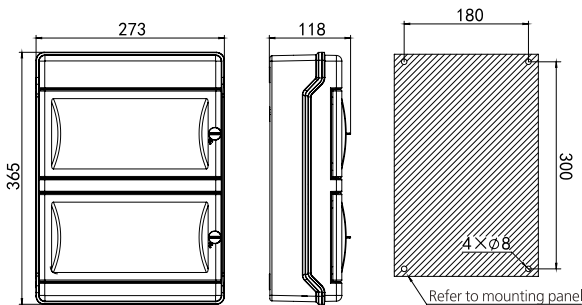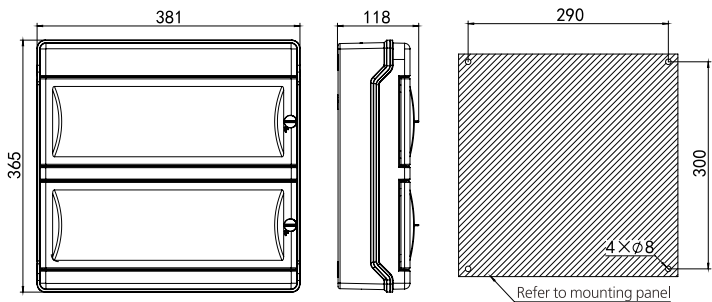
380. 80 | 118 | 290

215 | 150

Refer to mounting panel

4×∅8

FCDB-EUS-P24P

273 | 118 | 180

365 | 300

4×∅8

Refer to mounting panel

FCDB-EUS-P36P

381 | 118 | 290

365 | 300

4×∅8

Refer to mounting panel

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FCDB-EUS Distribution Box

IP65 surface distribution boxes(ABS)

Reference No.	No of modules	Dimensions Height X Wdth X Depth	Weight G
FCDB-EUS-A6P	1x6 DIN rail	165x200x108	451
FCDB-EUS-A9P	1x9 DIN rail	219x200x108	543
FCDB-EUS-A12P	1x12 DIN rail	273x215x118	771
FCDB-EUS-A18P	2x9(18)DIN rail	380.8x215x118	928
FCDB-EUS-A24P	2x12(24)DIN rail	273x365x118	1228
FCDB-EUS-A36P	2x18(36)DIN rail	381x365x118	1621

IP65 surface distribution boxes (PC)

Reference No.	No of modules	Dimensions Height X Wdth X Depth	Weight G
FCDB-EUS-P6P	1x6 DIN rail	165x200x108	451
FCDB-EUS-P9P	1x9 DIN rail	219x200x108	543
FCDB-EUS-P12P	1x12 DIN rail	273x215x118	771
FCDB-EUS-P18P	2x9(18)DIN rail	380.8x215x118	928
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