

IP66

V0



WATERTIGHT ENCLOSURES IN POLYESTER REINFORCED WITH FIBERGLASS 7 SIZES – IP66 AND V0 RATED



THE ITALIAN EVOLUTION OF ELECTRICITY

GRP POLYESTER ENCLOSURES



We are pleased to present the renewed range of **GRP polyester enclosures designed by Elettrocanali**, which stands out for the introduction of **a new bigger size (the seventh one)** and for the upgrade of protection degree to IP66.

The new features follow a specific market research and reflect an increasing trend of modular solutions, with additional performance for a more efficient electricity distribution.

Our enclosures have been designed to ensure the **maximum safety** and **reliability** in any environment, indoor and **outdoor**.

Specifically, this renovated range distinguishes for its **extended flexibility in systems configuration**, thanks to the modularity of each component. This way, the new enclosures grant additional versatility as they can adapt to specific needs of the customer, giving **efficiency and cost savings**.

Additionally, **they can be equipped with advanced monitoring and control systems**, which make it possible to detect faults and promptly intervene to prevent energy failures.

PLUS



SELF-EXTINGUISHING IN LESS THAN 10 SECONDS

The V0 self-extinguishing classification, as defined by the **UL 94 standard**, indicates that a plastic material extinguishes itself within 10 seconds after the flame is removed. This means that, once exposed to a direct flame, **the material will stop burning within 10 seconds after the flame source is taken away.**



RELIABILITY

The **insulation class II** offers more safety for people and components, on the other side the **high impact resistance** (rated IK10 – 20J) offers the robustness required **outdoor and in industrial environment.**



SAFETY

The enclosures are made of a composite of polyester resin reinforced with fibreglass (25%) as well as other additives in order to make them Halogen-Free, UV and fire resistant. Standard colour is grey RAL7035.

The peculiarity of the new enclosures is a very good anti-corrosion property and pollution resistance, making them suitable for either indoor and outdoor installation as well as industrial plants such as ports, washing stations, construction sites, chemical, paper, food, petrochemical, telecommunications, energy, photovoltaic and railway plants.



ENDURANCE

Quality means stability and durability.

With an IP66 rating we define our QUBESYSTEM series range as fully protected against dust and resistant against powerful water jets. The polyester material is resistant to chemicals such as oils and solvents.

Our IP66 electrical enclosure is therefore particularly indicated for outdoor installations such as in industrial plants, public infrastructures and facilities, wind farms or photovoltaic plants. GRP enclosures can therefore offer high level of resistance in harsh environments where power failures can generate negative consequences for people's safety.

FULL RANGE

PLUS V0



7 SIZES

2 VERSIONS (BLIND AND WITH WINDOW)

IP66: PROTECTION AGAINST DUST AND
POWERFUL WATER JETS. POLYESTER
MATERIAL IS RESISTANT TO CHEMICALS
SUCH AS OILS AND SOLVENTS.




GRP POLYESTER ENCLOSURES

RANGE

Elettrocanali offers a full range of electrical enclosures along with accessories for a complete board customization.

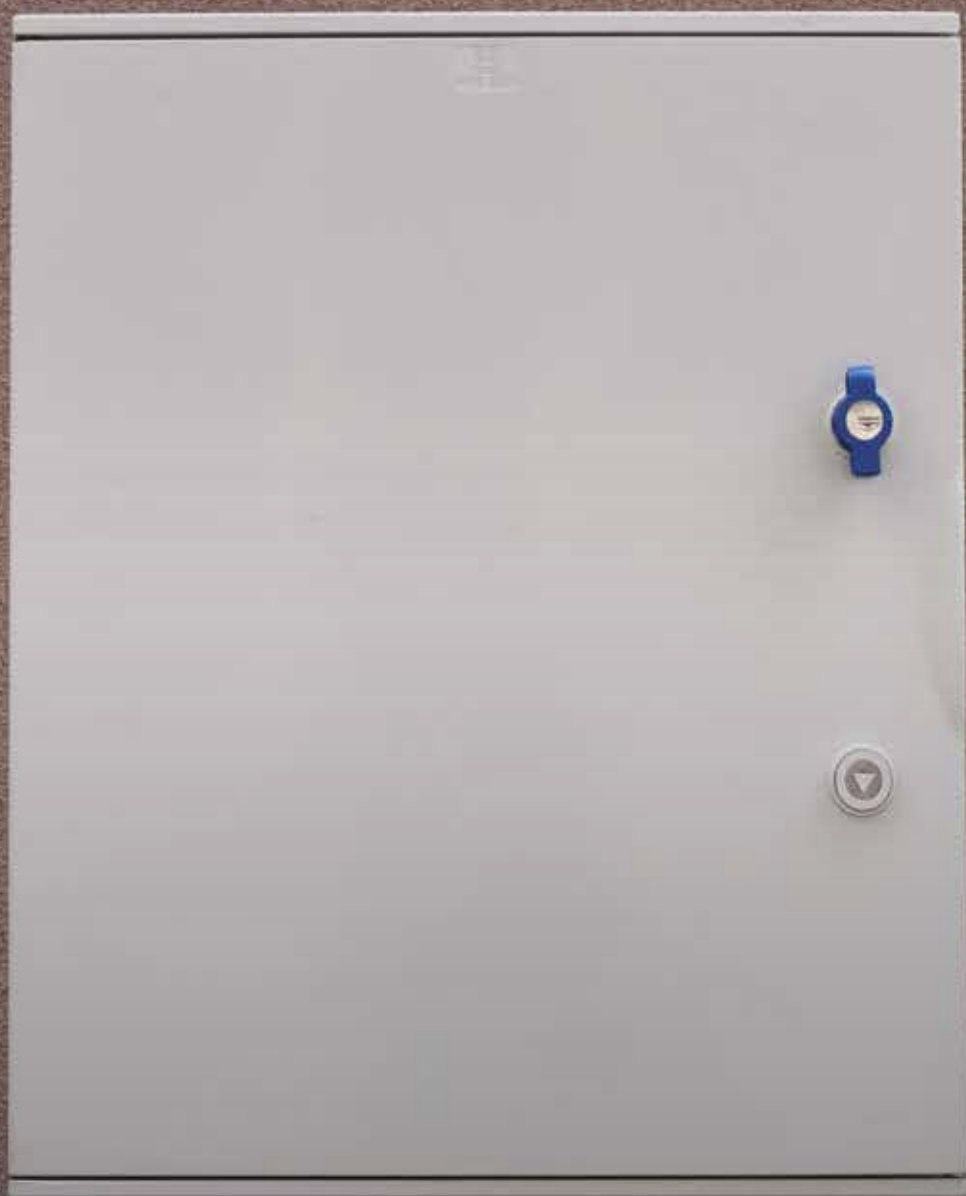
The assembling stages and installation become therefore simple and fast.

To make frames larger than 800x1055 mm, two or more frames having the same base or height dimensions can be assembled together using EC625GI joining kits and EC521xx series watertight joining fittings.

											
DIMENSIONS LxHxW mm MODULES PITCH mm	GRP POLYESTER ENCLOSURE SOLID DOOR	GRP POLYESTER ENCLOSURE TRANSPARENT WINDOW DOOR	INTERNAL FIBRE-GLASS DOOR	METAL BACK PLATE (Fixing on bottom)	INSULATING BACK PLATE (Fixing on bottom)	MODULAR FRAME UPRIGHTS (2 units)	MODULAR CHASSIS FACEPLATE	MODULAR CHASSIS BLANK PLATE	MODULAR CHASSIS DOUBLE HEIGHT BLANK PLATE	DIN RAIL WITH FIXING SUPPORTS	BACK PLATE DEPTH ADJUST KIT
PACKAGING	1 PIECES	1 PIECES	1 PIECES	1 PIECES	1 PIECES	1 PIECES	1 PIECES	1 PIECES	1 PIECES	1 PIECES	1 KIT
I° 270x305x170	EC625001	EC625011	-	EC625031	EC625041	-	-	-	-	-	-
II° 325x430x185 36M (3x12) 125 mm	EC625002	EC625012	EC625022	EC625032	EC625042	EC625072	EC625102 12 Modules	EC625112	EC625122	EC625132 12 Modules	EC625REG (2 kits for each back plate)
III° 435x505x215 54M (3x18) 150 mm	EC625003	EC625013	EC625023	EC625033	EC625043	EC625073	EC625103 18 Modules	EC625113	EC625123	EC625133 18 Modules	EC625REG (2 kits for each back plate)
IV° 435x655x215 72M (4x18) 150 mm	EC625004	EC625014	EC625024	EC625034	EC625044	EC625074	EC625103 18 Modules	EC625113	EC625123	EC625133 18 Modules	EC625REG (3 kits for each back plate)
V° 545x655x265 96M (4x24) 150 mm	EC625005	EC625015	EC625025	EC625035	EC625045	EC625074	EC625105 24 Modules	EC625115	EC625125	EC625135 24 Modules	EC625REG (3 kits for each back plate)
VI° 620x810x320 140M (5x28) 150 mm	EC625006	EC625016	EC625026	EC625036	EC625046	EC625076	EC625106 28 Modules	EC625116	EC625126	EC625136 28 Modules	EC625REG (4 kits for each back plate)
VII° 800x1055x360 190M (5x38) 200 mm	EC625007	EC625017	EC625027	EC625037	-	EC625077	EC625107 38 Modules	EC625117	-	EC625137 38 Modules	EC625REG (4 kits for each back plate)



WALL MOUNTING BRACKETS GALVANIZED STEEL KIT (4 units)	WALL MOUNTING BRACKETS STAINLESS STEEL KIT (4 units)	MODULAR CHASSIS EMPTY SLOT COVER (4,5 modu- les)	CUT LOCK MECHANISM	ENCAPSULATED BRASS NUTS (10 units)	CONNECTING JOINT KIT	SPARE BLANK DOOR	SPARE TRANSPARENT WINDOW DOOR	REPLACEMENT KEY	REPLACEMENT STANDARD LOCK	POLE MOUNT KIT (Ø MAX 25 CM)	DIN RAL SUPPORT FRAME FOR 2 MODULES "MY LIFE" MODULAR DEVICES
1 KIT	1 KIT	25 PIECES	1 KIT	1 KIT	1 KIT	1 PEZZO	1 PIECES	10 PIECES	10 KIT DA 2	1 KIT DA 2	40 PIECES
EC625SZ	EC625SI	-	EC625SC	-	EC625GI	EC625001R	EC625011R	EC625ST	EC625SR	EC625SP1	-
EC625SZ	EC625SI	EC600TC	EC625SC	EC625IO	EC625GI	EC625002R	EC625012R	EC625ST	EC625SR	EC625SP1	ECL4608
EC625SZ	EC625SI	EC600TC	EC625SC	EC625IO	EC625GI	EC625003R	EC625013R	EC625ST	EC625SR	EC625SP3	ECL4608
EC625SZ	EC625SI	EC600TC	EC625SC	EC625IO	EC625GI	EC625004R	EC625014R	EC625ST	EC625SR	EC625SP3	ECL4608
EC625SZ	EC625SI	EC600TC	EC625SC	EC625IO	EC625GI	EC625005R	EC625015R	EC625ST	EC625SR	EC625SP5	ECL4608
EC625SZ	EC625SI	EC600TC	EC625SC	EC625IO	EC625GI	EC625006R	EC625016R	EC625ST	EC625SR	EC625SP5	ECL4608
EC625SZ	EC625SI	EC600TC	EC625SC	EC625IO	EC625GI	EC625007R	EC625017R	EC625ST	EC625SR	-	ECL4608





A COMPLETE SYSTEM OF ELECTRICAL ENCLOSURES AND ACCESSORIES

The range of GRP electrical enclosures is designed in two versions, with solid and transparent window front door. Doors are reversible, right-hand or left-hand openable. Opening angle span is more than 180° to facilitate an easy wiring with no obstructions.

Doors can be removed from the body and easily mounted on again. All enclosures are equipped with standard plastic quarter turn lock, but a safety lock mechanism can be supplied separately if needed.

- Operating temperature is -25 °C to 70 °C;
- The range is available in 7 sizes, from the Size I (270x305x170 mm) to the Size VII (800x1055x360 mm)

The enclosures can be equipped with many accessories that make it possible to get several configurations: metal or insulating back plates and internal polyester doors can be adjusted at different heights through a depth adjust kit.

The internal back plates incorporate pre-fitted and reversible metal hinges along with an ergonomic handle and standard plastic lock. The DIN rail modular devices can be wired on the workbench and subsequently mounted inside the enclosure itself.

Enclosures can host modular chassis for the installation of 26 to 190 DIN modules

Pre-fitted encapsulated nuts are incorporated on the back side to accommodate mounting to eliminate drilling and retain IP rating.

GRP POLYESTER ENCLOSURES

ACCESSORIES

INSULATING BACK PLATE

With adjustable depth

FIBRE-GLASS REVERSIBLE

Internal doors with standard plastic lock and ergonomic handle

BOTH INTERNAL DOORS AND FRONT DOORS

Incorporate concealed stainless-steel spring hinges

SMOOTH ENCLOSURE

For an easier access

BRACKETS

Galvanized or stainless steel wall mounting

STANDARD INSULATING CAPS

Are supplied for retaining ip66 rating

SINGLE-BODY MOULDING

METAL BACK PLATE

With adjustable depth

REVERSIBLE SOLID

Or transparent window front doors with opening angle span above 180°

INTERNAL POLYESTER DOORS

Can be adjusted at two different heights through depth adjust kits

MODULAR CHASSIS

Can be assembled on the workbench with frame uprights, din rails and blank/windowed faceplates

MODULAR BLANK SLOT COVERS

POLYCARBONATE TRANSPARENT WINDOW
Shock and uv resistant

QUARTER TURN INSULATING SCREWS

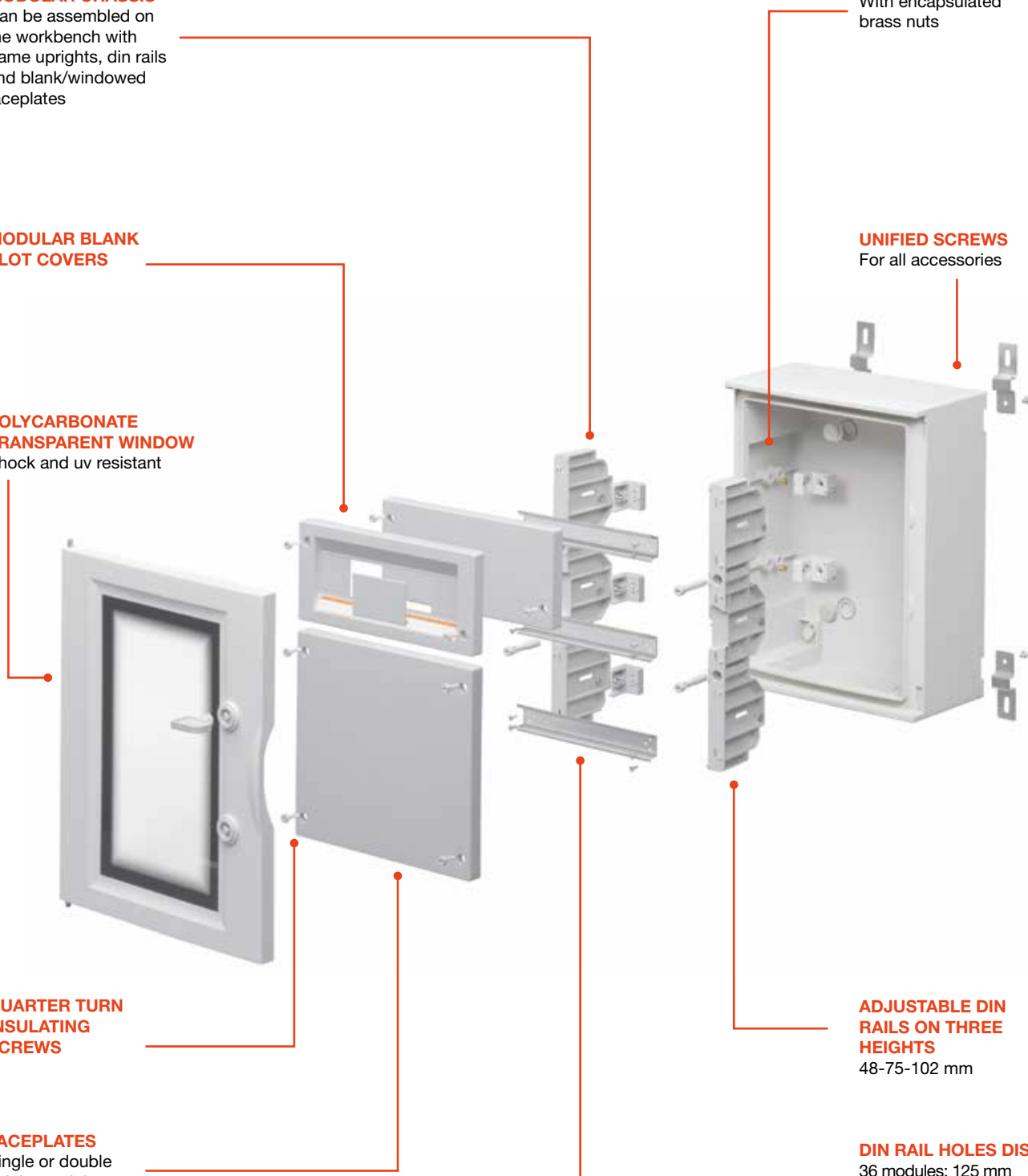
FACEPLATES
Single or double height modular chassis

PANELS FIXING
With encapsulated brass nuts

UNIFIED SCREWS
For all accessories

ADJUSTABLE DIN RAILS ON THREE HEIGHTS
48-75-102 mm

DIN RAIL HOLES DISTANCE
36 modules: 125 mm
54/72/96/140 modules: 150 mm
190 modules: 200 mm



GRP POLYESTER ENCLOSURES

Pre-fitted encapsulated nuts are incorporated on the back side to accommodate mounting to eliminate drilling and retain IP rating



Wall mounting brackets can be fixed vertically or horizontally. The encapsulated nuts can be used to fasten other elements such as bars or threaded frames

Opening angle span of the doors is more than 180° to facilitate an easy wiring with no obstructions



Doors incorporate concealed stainless steel spring hinges and opening can be right or left-handed

Metal or insulating subpanels are wide and can be easily fixed on the bottom with standard supplied screws



Metal or insulating subpanels can be adjusted at different heights through the optional depth adjust kit

Internal doors have a wide surface. They incorporate concealed stainless-steel hinges and are supplied with standard locks and ergonomic handle



The internal doors incorporate pre-fitted and reversible stainless steel hinges and can be adjusted at two different heights

DIN rails (on demand)
Holes distance:
36 modules: 125 mm
54/72/96/140 modules: 150 mm
190 modules: 200 mm



DIN rails can be mounted on the frame uprights at specific positions (for devices with standard height of 48, 75 or 102 mm)

The DIN rail modular devices can be mounted on the modular frame, wired on the workbench and subsequently mounted inside the enclosure itself.



Cable trunkings can be mounted on the DIN rail supports with minimum height of 40 mm, even with back plate on the bottom

The assembled and wired frame can be hold by the internal brackets.
The final wiring or maintenance is carried out hands-free



The frame fixing is fast and easy thanks to the quick plastic insulating screws: maximum speed for an easy installation and maintenance

All modular faceplates can be quickly mounted with quarter turn plastic screws for a fast and easy installation and maintenance stages



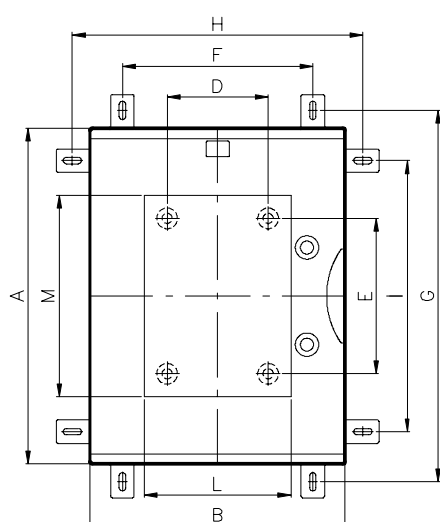
The frame installed in the highest position ensures the retaining of IP20 rating even with open door

GRP POLYESTER ENCLOSURES

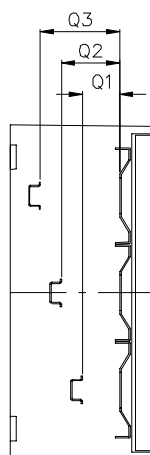
DIMENSION TABLES

GLASS-FIBRE REINFORCED POLYESTER ENCLOSURES SERIE 625

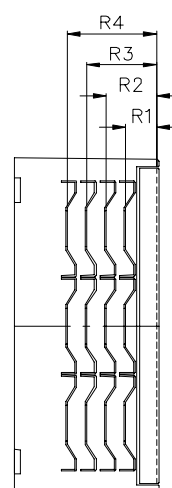
EXTERNAL DIMENSIONS
AND FIXING POINTS



ELEVATIONS OF DIN RAILS
ABOVE FACEPLATES



ELEVATIONS OF FACEPLATES
ABOVE FRONT DOOR



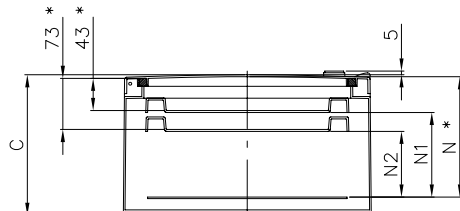
SIZE	MODULES	A	B	C	D	D1	E	F	G	H	I	L	M	W1	W2
I°	-	307	271	171	93	-	135	188	353	317	224	103	166	-	36
II°	36 (3X12)	432	328	186	130	-	260	245	478	374	349	160	290	36	62
III°	54 (3X18)	507	436	216	238	-	335	353	553	482	424	268	365	74	112
IV°	72 (4X18)	657	436	216	238	-	485	353	703	482	574	268	515	82	124
V°	96 (4X24)	657	546	266	348	-	485	463	703	592	574	378	515	94	134
VI°	140 (5X28)	807	620	322	410	-	620	537	853	666	724	452	656	138	218
VII°	190 (5X38)	1057	800	362	590	470	870	717	1103	846	974	632	856	230	315

W1: Dissipation power in Watt with DIN rails and windowed faceplates at 48 mm elevation.

W2: Dissipation power in Watt with subpanel at 48 mm elevation.

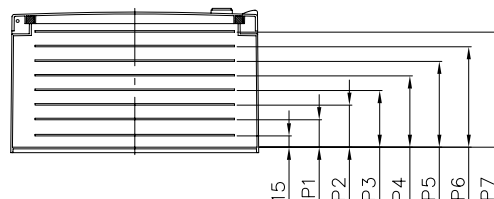
DIMENSIONS IN mm

HEIGHT OF FRONT DOOR, INTERNAL DOOR AND BACK PLATE AT DIFFERENT ELEVATIONS



DOOR - BACK PLATE DISTANCES

HEIGHT OF BACK PLATE AT DIFFERENT ELEVATIONS WHEN FIXED ON DEPTH ADJUST KITS (OPTIONAL)

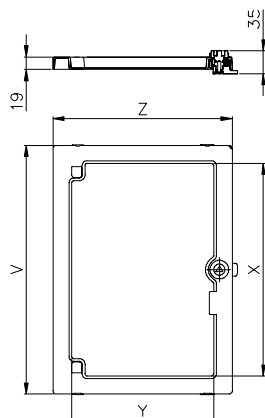


BACK PLATE DISTANCES - BACK PLATE SUPPORTS

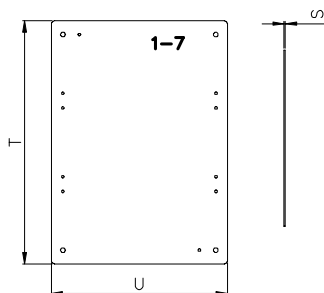
* Calculate 9 mm less (only for windowed faceplates)

SIZE	MODULES	N	N1	N2	P1	P2	P3	P4	P5	P6	P7	Q1	Q2	Q3	R1	R2	R3	R4	R5
I°	-	142	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
II°	36 (3X12)	155	112	82	43	68	-	-	-	-	-	48	75	-	30	55	-	-	-
III°	54 (3X18)	185	142	112	43	68	93	-	-	-	-	48	75	102	30	55	80	-	-
IV°	72 (4X18)	185	142	112	43	68	93	-	-	-	-	48	75	102	30	55	80	-	-
V°	96 (4X24)	235	192	162	43	68	93	118	143	-	-	48	75	102	30	55	80	105	-
VI°	140 (5X28)	291	248	218	43	68	93	118	143	168	193	48	75	102	30	55	80	105	130
VII°	190 (5X38)	332	282	252	80	105	130	155	180	205	230	48	75	102	30	55	90	115	140

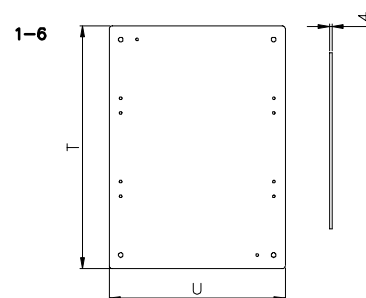
INTERNAL DOOR WITH STANDARD LOCK



METAL BACK PLATE

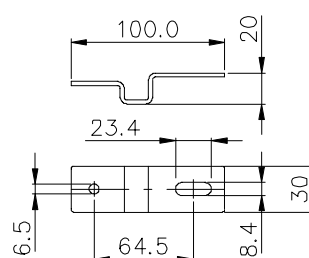


INSULATING BACK PLATE



INSULATING BACK PLATE

SIZE	S	T	U	V	Z	X	Y
I°	1,5	239	207	-	-	-	-
II°	1,5	364	264	373	267	318	210
III°	1,5	439	372	447	377	392	320
IV°	1,5	589	372	597	377	542	320
V°	1,5	589	482	597	487	542	430
VI°	2,0	739	556	747	561	692	504
VII°	2,0	989	736	997	741	942	684



FEATURES AND SPECIFICATIONS

- MATERIAL: **GLASSFIBRE REINFORCED POLYESTER** (GRP), HALOGENFREE, SELF EXTINGUISHING
- **RESISTANT TO UV RAYS** ACCORDING TO EN 614391/10.2.4
- STANDARD COLOUR: **GREY RAL 7035**
- IMPACT RESISTANCE: **IK10 (UP TO 20J)**, ACCORDING TO EN 62262
- **RESISTANCE TO ABNORMAL HEAT** (GWT ACCORDING TO IEC 60695211):
960 °C FOR THE VERSION WITH SOLID FRONT DOOR
650 °C FOR THE VERSION WITH TRANSPARENT WINDOW FRONT DOOR
- TEMPERATURE OPERATING CONDITIONS: **-25 °C TO 70 °C**
- PROTECTION DEGREE: **IP66**
- RATED OPERATING VOLTAGE: **1000 Vac - 1500 Vdc** (SUITABLE FOR PV INSTALLATIONS)
- INSULATION CLASS: II (WHEN FOLLOWING THE USER INSTRUCTIONS)
- SUITABLE FOR THE INSTALLATION OF MODULAR DEVICES WITH HEIGHT **48 AND 75 mm**
(DEVICES WITH HEIGHT **102 mm** CAN BE MOUNTED ON BOARDS OF SIZE III 435X505X215 mm AND ABOVE)
- **REVERSIBLE LEFT OR RIGHT-HAND OPENING** DOOR INCORPORATES CONCEALED REMOVABLE STAINLESS-STEEL HINGES (**OPENING ANGLE SPAN ABOVE 180°**)
- STANDARD: **EN62208, EN606701, EN6067024, EN61439**
- **IN COMPLIANCE WITH THE SAFETY OBJECTIVES** OF THE LOW-VOLTAGE DIRECTIVE 2014/35/EU (ANNEX I)
- IN COMPLIANCE WITH **ROHS II** DIRECTIVE 2011/65/EU AND 2015/863/EU

