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RENEWABLE ENERGIES & PROTECTION OF BATTERIES

A wide range of solutions for photovoltaic applications:

- For off-grid sites
- For grid connected sites
- Energy storage
- Protection of sensitive materials

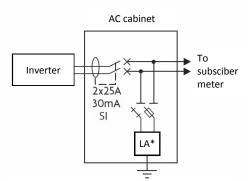
Protect your Energy



AC CABINETS, DC CABINETS

AC cabinets:

This cabinet installed on the AC circuit protects the installation at the output of the inverter. Particularly recommended for applications with a power of 3kW peak.



*LA: Lightning arrester with remote control contact



Modular equipment:

- Differential circuit breaker 25A 30mA
- Surge arrester type 2 20 kA
- 10,3 x 38 disconnection lightning arrester circuit breaker

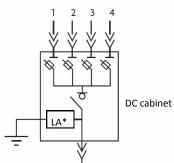
Dimensions & references:

| PV chains | H (mm) | W (mm) | D (mm) | Part number |
|-----------------------------------|--------|--------|--------|-------------|
| AC residential cabinet - 30 mA | 217 | 235 | 110 | 47315 |
| AC residential cabinet - 30 mA SI | 217 | 235 | 110 | 47316 |

• DC cabinets:

This box installed on the DC circuit between the photovoltaic panel chains or chains and the inverter. It includes a junction + protection + disconnection and lightning arrester type 2 - 20 kA. The panels are connected directly to terminal blocks via cable glands or directly to connectors (multi-contacts) type MC4.

DC 600 Vcc cabinets



• Switch:

Modular equipment:

- 25A for models 1, 2, 3 & 4 strings
- 40A for models 5 & 6 strings
- Surge arrester type 2 20 kA
- Single pole circuit breaker 10,3 x 38
- Connector type MC4 (4 to 6 mm²)

Dimensions & references:

| PV chain | 15 | H (mm) | W (mm) | D (mm) | Sectioning/LA*/ Cable gland | Sectioning/LA*/ MC4 | Sectioning/LA*/ Circuit breaker and cable gland | Sectioning/LA*/ Circuit breaker and MC4 |
|-------------|----|-----------|-----------|-----------|--------------------------------|------------------------|---|---|
| 1 à 2 | 2 | 217 | 307 | 110 | 47303 | 47306 | 47309 | 47312 |
| 3à4 | 1 | 409 | 307 | 115 | 47304 | 47307 | 47310 | 47313 |
| 5 à 6 | 5 | 409 | 307 | 115 | 47305 | 47308 | 47311 | 47314 |

To inverters *LA: Thermal disconnection Lightning arrestor

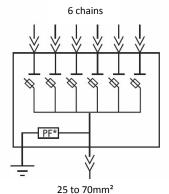




AC CABINETS, DC CABINETS

• Junction boxes:

This box installed on the DC circuit allows the junction of the chains of photovoltaic panels (PV). It includes 1000 Vdc fuses (fuses not supplied) and surge arrester type 2 - 20 kA. Cable entries by gland (PE) or MC4 connector.



*LA: Thermal disconnection Lightning arrestor

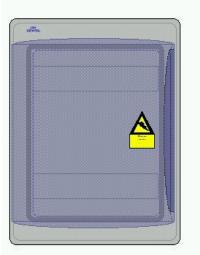


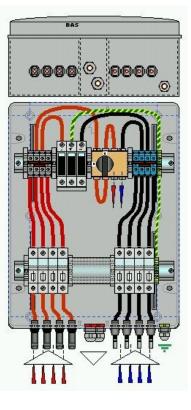
• Modular equipment:

- Surge arrester type 2 20 kA
- Single pole circuit breaker 10,3 x 38
- Connector type MC4 (4 to 6 mm²)
- Terminal block for cable 25 to 70 mm²

Dimensions & references:

| PV chains | H (mm) | W (mm) | D (mm) | Cable glands | MC4 |
|-----------|--------|--------|--------|-----------------|-------|
| 6 chains | 409 | 307 | 115 | 47325 | 47326 |
| 7 chains | 409 | 307 | 115 | 47327 | 47328 |
| 8 chains | 409 | 307 | 115 | 47329 | 47330 |







Contact us for Any other configuration



INSULATING INDOOR MODULAR CABINETS CC RANGE



Structural characteristics:

- Casings made of glassfiber reinforced polyester, grey RAL 7035 - Monobloc casing
- Cover made of UV resistant polycarbonate, transparent or opaque, various height possbile according to model
- Closing by four sealable insulating screws, with rectangular or triangular head.
- Exceptional junction between two associated boxes thanks to rectangular casings and ribs on all sides: good IP2x protection at the junction, without the use of joint or other device.
- Fixing inserts in the bottom of the casing
- à 960°C self extinguishing as per IEC 60695-2-10

| O utlinet | D | imensions in | mm | Cov | 15 | |
|------------------|-------|--------------|-------|-------------|---------|------|
| Cabinet | Lenth | Width | Depth | Transparent | Opaque | IP |
| CC-12 | 285 | 190 | 185 | AC70035 | AC70036 | IP55 |
| CC-22 | 285 | 285 | 185 | AC70010 | AC70017 | IP55 |
| CC-23 | 380 | 285 | 185 | AC70011 | AC70018 | IP55 |
| CC-25 | 570 | 285 | 185 | AC70032 | AC70019 | IP43 |
| CC-25 A | 570 | 285 | 225 | AC70030 | AC70031 | IP43 |
| CC-27 | 760 | 285 | 185 | AC70013 | AC70020 | IP43 |
| CC-33 A | 380 | 380 | 225 | AC70014 | AC70021 | IP55 |
| CC-35 | 570 | 380 | 185 | AC70034 | AC70033 | IP43 |
| CC-35 A | 570 | 380 | 225 | AC70015 | AC70022 | IP43 |
| CC-37 A | 760 | 380 | 225 | AC70016 | AC70023 | IP43 |
| CC-55 | 570 | 570 | 185 | AC70009 | AC70024 | IP43 |
| CC-55 A | 570 | 570 | 225 | AC70027 | AC70028 | IP43 |
| CC-26 | 630 | 285 | 190 | AC70038 | AC70039 | IP43 |
| CC-36 A | 630 | 398 | 225 | AC70040 | AC70041 | IP43 |
| CC-56 | 630 | 570 | 185 | AC70025 | - | IP43 |









RAL 7035

IEC 62262



HIGH PERFORMANCE IP66 OUTDOOR POLYESTER CABINETS ARED RANGE

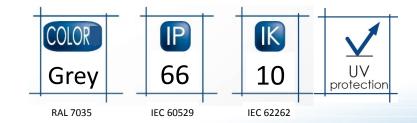




Structural characteristics:

- Cabinets made in glassfiber reinforced polyester, grey RAL 7035
- Monobloc casing
- Full door rotating on two invisible hinges, opening angle > 90°
- Locking by 1 or 2 latches (depending on dimensions of cabinet) with removable key
- Other locking systems avaibale as option: triangular head, key latch
- Padlocking device available as option
- Closing gasket for high quality sealing
- Mounting embossings in the casing: 4 in ARED-325, 8 in the other models
- Supplied with screws to fix equipment on the embossings of the casing
- Supplied with set of 4 brackets for wall mounting from the outside of the cabinet
- Modular chassis available as an option
- 960°C self extinguishing as per IEC 60695-2-10
- Resistant to chemical agents, UV rays, weatherproof

| Model | Height | Width | Depth | Ref. |
|----------|--------|--------|--------|---------|
| ARED 325 | 300 mm | 250 mm | 140 mm | AC50532 |
| ARED 43 | 400 mm | 300 mm | 200 mm | AC50543 |
| ARED 54 | 500 mm | 400 mm | 200 mm | AC50554 |
| ARED 64 | 600 mm | 400 mm | 230 mm | AC50564 |
| ARED 65 | 600 mm | 500 mm | 230 mm | AC50565 |









SEIFEL





- Cabinets made in glassfiber reinforced polyester, grey RAL 7035
- Monobloc casing
- Full door rotating on two invisible hinges, opening angle > 180°
- Locking by 2 latches with removable key

- Other locking systems avaibale as option: triangular head, key latch

- 3 point locking system with rotating handle + cylinder lock available as an option

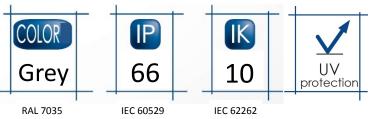
- Padlocking device available as option
- Closing gasket for high quality sealing
- 8 mounting embossings in the casing
- Supplied with screws to fix equipment on the embossings of the casing

- Supplied with set of 4 brackets for wall mounting from the outside of the cabinet

- Transparent door available as an option
- Possibility to compartmentalize the inside of the casing and to place screens
- Modular chassis available as an option
- Fixing on pole is possible thanks to 2 corrosion resistant metal profiles allowing to take strap, availabe as an option
- 960°C self extinguishing as per IEC 60695-2-10
- Resistant to chemical agents, UV rays, weatherproof



| Model | Height | Width | Depth | Ref. |
|---------|--------|--------|--------|---------|
| ARED 68 | 615 mm | 847 mm | 330 mm | AC50568 |
| ARED 86 | 852 mm | 610 mm | 330 mm | AC50586 |



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CONNECTION BOX ARRAY BOX

Use :

- Connection box for solar power plants

- Outdoor installation (UV-resistant cabinet), high degree of protection

- Installation: against a wall, on a concrete slab, or on a base made of the same material as the cabinet

- Any amount of strings possible

• Technical characteristics :

- Casing and door made of thermoplastic compound

- Door mounted on hinges (opening up to 180°, right or left) with locking device, 3-point locking system maneuverable by rotating handle

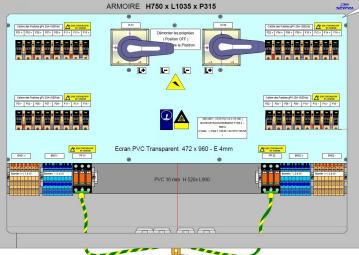
• Options:

- Supply and installation of electrical equipment, fixed on DIN rail: according to customer's order
- Protection by 1 or 2 DC switches
- Fuse holder
- MC4 connectors or cable glands
- Document holder on the inside door



AFNOR 3225 NF X 08-002 IEC 62262







Contact us for any other configuration









Contact us for Any other dimension

CABINETS FOR INVERTERS

Use :

- To protect the inverter from the elements
- Outdoor installation (UV-resistant cabinet), high degree of protection
- Installation: against a wall, on a concrete slab, or on a base made of the same material as the cabinet

Technical characteristics :

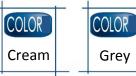
- Casing and door made of thermoplastic compound
- Door mounted on hinges (opening up to 180°, right or left) with locking device, 3-point locking system maneuverable by rotating handle

• Options:

- Mounting brackets for inverters in the cabinet
- Thermostatically regulated ventilation
- Supply and installation of electrical equipment, fixed on DIN rail: according to customer's order
- Cable entry and exit cones or cable glands
- Cable entry and exit from top or bottom, left or right
- Document holder on the inside door

| Cabinet | Height | Width | Depth | Code (cream) |
|------------------------------|---------|---------|--------|-----------------|
| Cabinet 1 inverter * | 1600 mm | 1080 mm | 540 mm | 55924 |
| Cabinet 2 inverters * | 1600 mm | 1710 mm | 630 mm | 55925 |
| Cabinet 3 inverters * | 1600 mm | 1710 mm | 630 mm | 56358 |
| Cabinet 4 inverters * | 2000 mm | 1980 mm | 630 mm | 56360 |
| Base for cabinet 1 inverter. | 500 mm | 1125 mm | 585 mm | 56400 |
| Base for cabiner 2 / 3 inv. | 500 mm | 1755 mm | 675 mm | 56168 |

* Cabinet delivered with fan



AFNOR 3225 RAL 7035

NF X 08-002

IEC 60529 IEC

IEC 62262

100%

IK

10



IP

55



8











SOL'R BOX

• Use :

- Protection of batteries for autonomous rural installation
- Safe for one (size S) or two (size M) batteries
- Installation inside and outside
- Battery (ies) placed directly in the bottom of the SOL'R BOX

• Technical characteristics :

- SOL'R BOX made of thermoplastic compound (acid resistant material)High and low vents for hydrogen evacuation resulting from the charge
- / discharge of the battery
- Closure with triangular lockable and lockable latch
- Possibility to add a removable shelf

• Options:

- Cable glands for cable entry and exit
- Securing of electrical outlets on the sides
- Fixing of the load regulator on the walls possible thanks to a set of inserts + screws
- Indicator of the state of charge of the battery (ies)
- Wiring

| Product | Height | Width | Depth | Code (grey) |
|----------------------|--------|---------|--------|-------------|
| SOL'R BOX S | 390 mm | 476 mm | 300 mm | 55842 |
| SOL'R BOX xM | 390 mm | 600 mm | 300 mm | 56884 |
| SOL'R BOX M | 390 mm | 900 mm | 300 mm | 55843 |
| SOL'R BOX MEDIUM H | 490 mm | 900 mm | 300 mm | 56961 |
| SOL'R BOX L | 750 mm | 1200 mm | 300 mm | 56848 |
| With removable shelf | | | | |
| SOL'R BOX S + shelf | 615 mm | 476 mm | 300 mm | 57046 |
| SOL'R BOX M + shelf | 750 mm | 900 mm | 300 mm | 57039 |
| SOL'R BOX L + shelf | 750 mm | 1200 mm | 300 mm | 57043 |



Contact us for Any other dimension





BATT'BOX

• Use :

- On-site battery protection

- No limitation of the number of elements, depends on the configuration of the battery rack

- Outdoor installation

- The BATT'BOX covers the batteries which are placed directly on concrete slab.

Technical characteristics :

- BATT'BOX made of thermoplastic compound (acid resistant material)

- High and low vents for hydrogen evacuation resulting from the charge / discharge of the battery

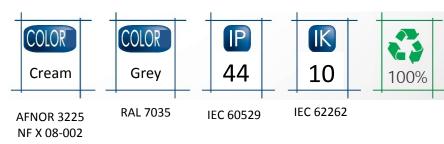
- Sunroof
- Cable glands for cable entry and exit,
- Supplied as a kit (mounting instructions included).

Six standard sizes (interior dimensions) :

- Batt'Box XS : H 585 x W 555 x D 510 mm
- Batt'Box S : H 485 x W 960 x D 510 mm
- Batt'Box M : H 985 x W 1635 x D 735 mm
- Batt'Box L : H 1315 x W 2040 x D 1365 mm
- Batt'Box XL : H 1315 x W 2490 x D 1680 mm
- Batt'Box XXL : H 1315 x W 2850 x D 1455 mm

Options:

- Opening and lockable front panel (with triangular latches) for battery level check
- Bottom panel to close the base of the BATT'BOX
- Retention tray to be placed under the battery racks to contain any acid leakage. This tray is fully covered by the BATT'BOX
- Fixing of the load regulator on the walls possible thanks to a set of inserts + screws
- Fan 48V DC, 165m3 / h, to improve ventilation (recommended for batteries type OPzS)
- Padlocking barrel (sold individually)







Above view of a BATT'BOX with an outdoor cabinet on site



BATT'BOX with open front panel

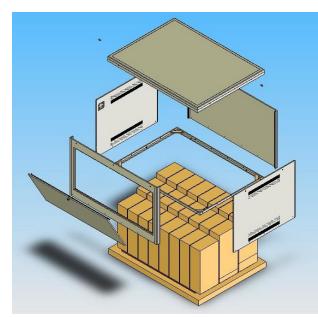


BATT'BOX with open roof and facade panel









Other solutions: Vertical Batt'BOX, ...







| Product | Code (grey) |
|---------------------------------------|-------------|
| BATT'BOX XS | 56064 |
| BATT'BOX S | 55839 |
| BATT'BOX M | 55840 |
| BATT'BOX M with opening front panel | 56056 |
| BATT'BOX L | 55841 |
| BATT'BOX L with opening front panel | 56009 |
| BATT'BOX XL | 56008 |
| BATT'BOX XL with opening front panel | 56759 |
| BATT'BOX XXL | 56827 |
| BATT'BOX XXL with opening front panel | 56408 |
| Bottom panel for BATT'BOX XS | 56805 |
| Bottom panel for BATT'BOX S | 56806 |
| Bottom panel for BATT'BOX M | 56826 |
| Bottom panel for BATT'BOX L | 56807 |
| Bottom panel for BATT'BOX XL | 56808 |
| Bottom panel for BATT'BOX XXL | 56809 |
| Retention tray for BATT'BOX XS | 56789 |
| Retention tray for BATT'BOX S | 56790 |
| Retention tray for BATT'BOX M | 56791 |
| Retention tray for BATT'BOX L | 56731 |
| Retention tray for BATT'BOX XL | 56792 |
| Retention tray for BATT'BOX XXL | 56793 |
| 48V DC, 165m3/h fab | 56665 |
| Padlocking barrel (sold individually) | 55922 |

Retention tray

Bottom panel

Contact us for any other dimension



SOL'R CONT FOR ENERGY STORAGE



The +

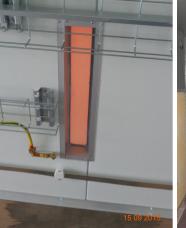
- SEIFEL exclusive know how
- Custom design solution
- Excellent thermal characteristics
- Empty or equipped application
- First trip 20' container





Technical characteristics

- SEIFEL 60mm thick insulation into one 20' container
- Ventilation: natural, mechanical, eletrical fan, air conditioner
- Sizing of ventilation defined by SEIFEL's Engineering Department
- Integration of equipement (inserts for battery chargers, inverter) battery rack, battery
- Separation wall (between battery, generator)
- Container with double door also possible
- Internal / external lighting
- Cable trays
- Earthing
- Pre-cabling possible
- Direct shipment from SEIFEL to seaport











• Use :

- Protection of electrical and telecommunications equipment,
- Outdoor installation (shelter resistant to UV),
- Installation method: on concrete slab

• Technical characteristics:

- Eurocode 3 and 5 compliant metal chassis

- Panels conform to NF EN 10346 painted according to XP P34-301 and NF EN 10169

- Panel type:

. Isotherm: 40 mm (walls) and 60 mm (roof) with a ZM Evolution coating

. Thermal:

Walls Uc = $0.528 \text{ W} / \text{m}^2$. ° C

Roof Uc = $0.375 \text{ W} / \text{m}^2 \circ \text{C}$

- Anodised aluminum frame 20 microns
- Type of floor: plywood CTB-X coated and non-slip, bonding class 3
- Permissible working load: 1000 kg / m^2 on 2 lateral strips of width 600 mm and 250 kg / m^2 in the center

- Fixing to the ground: square at the bottom in each corner (brackets and dowels provided)

• Locking :

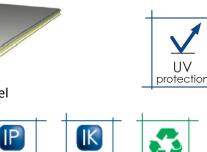
- 1-point lock with half cylinder European
- 3-point lock with half-cylinder European in variant





Floor

Floor mounting provided



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IEC 62262



Floor



| Size | Height | Width | Detph | Unloaded weight |
|-------|---------|---------|---------|--------------------|
| 6 m² | 2700 mm | 2340 mm | 2420 mm | 730 kg |
| 8 m² | 2700 mm | 3570 mm | 2420 mm | 955 kg |
| 10 m² | 2700 mm | 4720 mm | 2420 mm | 1180 kg |
| | | | | |



Shelter panel

Grey 45

RAL 9006 IEC 60529

(*) Provide 2x10A - 30mA surge protection in a box

2x36w fluorescent lighting + switch(*) kit Code 47340





OUTDOOR CABINETS

Use :

- Protection of electrical and telecommunication equipment,
- Outdoor use (UV resistant enclosure),
- Mounting on base or concrete slab.

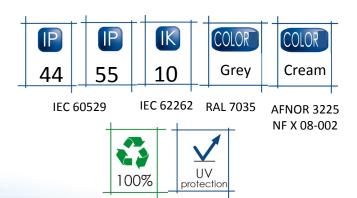
Technical characteristics :

- Cabinet made in thermoplastic compound,
- Protection degree from IP43 to IP55, shock resistance IK10,
- 19" racks supplied inside the cabinet,
- Earthing, wiring, cable glands on request
- Document holder on the door, internal side,

- Door mounted on hinges (90° opening, on left or right side) with padlocking facility; locking of the door by means of a 3 point system with rotating handle without locking cylinder

- Doorstop by mechanical self-locking arm
- Colour: grey or cream
- Delivered assembled

| H | eight | Width | Depth | Code Grey | Code Cream |
|-------|----------------|-----------------|--------|--------------|---------------|
| 16 U | 965 mm | 675 mm | 405 mm | 60088 | 60089 |
| 16.0 | 9 03 mm | 505 mm - 075 mm | 675 mm | 60093 | 60094 |
| 24 U | 1320 mm | 675 mm | 405 mm | 60090 | 56828 |
| 24 0 | 1320 mm | 075 11111 | 675 mm | 60095 | 60096 |
| 32 U | 1700 mm | 675 mm | 405 mm | 60083 | 60084 |
| 52 0 | 1700 mm | | 675 mm | 60097 | 60085 |
| 42 U | 2120 mm | 675 mm | 405 mm | 56829 | 60092 |
| 42 0 | 2120 11111 | 075 11111 | 675 mm | 60098 | 60099 |
| Socle | 135 mm | 675 mm | 405 mm | 56830 | 56831 |
| Socie | 122 11111 | 675 mm | 675 mm | 56832 | 56833 |
| Socia | Socle 300 mm | 675 mm | 405 mm | 60017 | 60086 |
| Socle | | 675 mm | 675 mm | 60100 | 60087 |



| 0 0 1 | |
|---|--------|
| 6 sockets + circuit breaker 16A-30mA | 56838 |
| H645xW451 perforated grid | 821006 |
| Fixed plate D410 30kg (for 675 mm deep cabinet) | 648139 |
| 2U Telescopic plate (for 675 mm deep cabinet) | 56839 |
| 1P+N 10 or 16A-C circuit breaker | 56840 |
| | |

19" accessories

300m3/h ventilation with thermostat

Lighting controlled by door contact

400W heating with thermostat

Natural ventilation

Contact us for any other configuration

Code

56834 56835

56836 56837



GENERAL CHARACTERISTICS OF OUR ENCLOSURES: BATT'BOX - SOL'R BOX - ARRAY BOX OUTDOOR CABINETS

The material of the enclosures is a thermoplastic compound died in the mass, designed for outdoor use. This material is resistant to rapid temperature changes, shocks, UV, corrosion, chemical agents and pollution.

The enclosures are manufactured according to our exclusive modular construction process (15 mm thick profiles). Made of thermoplastic compound (100% recyclable material), those double skin profiles are mechanically assembled and welded by cold polymerisation.

This process gives to the final product the following characteristics:

- Protection degree : IP 43 to IP 55 as per IEC 60529
- Shock resistance: IK 10 as per IEC 62262

- Dielectric rigidity: 6 kV as per IEC 60950, transversal resistance of our material

- Fire resistance: UL 94 Vo (self extinguishing material) as per ISO 1210, no propagation of a flame, 2x10 seconds the material extinguishes in a duration inferior to 10 seconds, the material does not let fall a burning drop

Climatic cycle: method 1 NF C 20-761, wet heat resistance, 6 x
24 hours cycles at extreme temperatures +70° C -30° C with
55% humidity in a climatic precinct, typical temperature +55° C
-20° C with 55% humidity in a climatic precinct

- Aging : NF C 20-540, colour resistance test, duration 6 weeks

- Glow wire test: NFC 20-921 or CEI 60695-2, 960° glow wire applied during 30 seconds, the extinguishing time must be inferior to 30 seconds, the material must not produce any burning drop.

- Acid resistance: no reaction while exposed to acids

- Corrosion: corrosion free (thermoplastics)
- Thermal insulation: $K = 0,3 W / ° C / m^2$

BENEFITS OF ENCLOSURES IN THERMOPLASTICS

The enclosures displayed in this brochure are made of double skin profiles of thermoplastic compound, 100% recyclable.

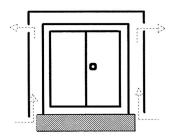
- <u>Chemical aggressions</u>: acid might escape from the batteries and affect some plastic materials (polyester) that turn grey or black. Thanks to their resistance to chemical aggressions, the enclosures made in thermoplastic compound do not have the same limitation and keep their aspect for years.

- <u>Humid Environnements</u>: a wet environment favors the emergence of foam in existing porosities of certain heterogeneous plastics (glassfiber reinforced polyester). Due to their molecular homogeneity, enclosures in thermoplastic compound are recommended for applications located in such environments.

- <u>Electrical insulation</u>: These enclosures house electrical equipment. It is important that those enclosures are made of an insulating material, providing a complete electrical safety for all the applications. The use of enclosures made of plastics ensures that, as their walls are non conductive.

- <u>Thermal characteristics</u>: studies have shown that the heat transfer coefficient of the thermoplastic compound relative to the one of stainless steel (or steel) is twice as good. It was also proved that the heat dissipation of thermoplastic compound is 244 times better compared to stainless steel (or steel).

- <u>Condensation of water</u>: the use of stainless steel (or steel) under normal condition of use (high temperature, UV exposure) will cause condensation of water inside the enclosure, and therefore a possibility of short-circuiting of batteries; the use of enclosure in thermoplastic compound with natural ventilation system will help reduce these phenomena, providing a longer life to the equipment placed inside; see sketch below.



- <u>Standards and norms</u>: the enclosures in thermoplastic compound are conceived according to severe standards and norms (aging, glow wire test, fire resistance, climatic cycle, UV resistance, damp heat test).

 <u>References</u>: our enclosures in thermoplastic compound are used on all continents in many applications such as electrical distribution, gas distribution, water distribution, IT, telecommunication facilities, and various applications such as protection of fuel cells, pumping solar stations compressors.



Sustainable solutions for your networks

ELECTRICITY

- Low voltage network & service entrance
 - * Distribution
 - * Cut off and protection
 - * Meter protection
 - * Apartment buildings

STREET LIGHTING

- Command enclosures
- Meter panels
- Junction boxes •
- Signaling, traffic lights •

INDUSTRIAL APPLICATIONS

- Switchboards •
- Monitoring and control
- Protection of sensitive equipment •
- Harsh environments

GAS

- Service entrance
- Cut off
- Regulation •
- Meter protection

TELECOM

- Telecommunications
 - * Mobile telephony
 - * Broadband network
- Highway signage

WATER

- Service entrance: cut off and meter protection
- Sanitation
 - * Control
 - * Chlorination
 - * Limnigraph

MARINA & CAMPING

- Marinas
- Camping, mobile homes

SEIFEL S.A.S.

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Protect your Energy





































