



RETTBOX[®]S

The best-in-class industrial socket-outlet with automatic self-ejection providing power to all equipment on-board a vehicle.

Ambulances, autonomous vehicles, refrigerated trucks...

RETTBOX® S IS THE IDEAL AUTOMATIC SELF-EJECTION SOLUTION FOR YOUR MOBILE APPLICATIONS



Smart, Simple, Safe are the three concepts which drove the R&D design of **RETTBOX® S**:

SMART

The device meets your space and design constraints.
RETTBOX® S offers a symmetrical and reduced thickness backplate.

SIMPLE

RETTBOX® S user-friendly design ensures robustness, performance and ease of installation.
Our goal is to simplify the work of end-users, contractors and vehicle body converters.

SAFE

User-friendly **RETTBOX® S** is the world's safest mobile application connector which provides the safest connection and disconnection.

A STEP FORWARD IN SAFETY

AUTOMATIC SELF-EJECTION

RETTBOX® S is a professional use compact and load-breaking self-ejecting socket-outlet.

Its technical features guarantee your safety.



GUARANTEED EJECTION

Automatic ejection upon start-up of the vehicle without any operator intervention



DRASTIC TIME-SAVING

Fast connection/disconnection



USER-FRIENDLY DEVICE

Easy connection with one hand only



IP54 INGRESS PROTECTION

Safe cleaning of the vehicle, resistance to poor weather conditions



VOLTAGE DETECTION LIGHT

Signal lights confirm when the charger and the battery are powered



POSSIBLE MANUAL EJECTION

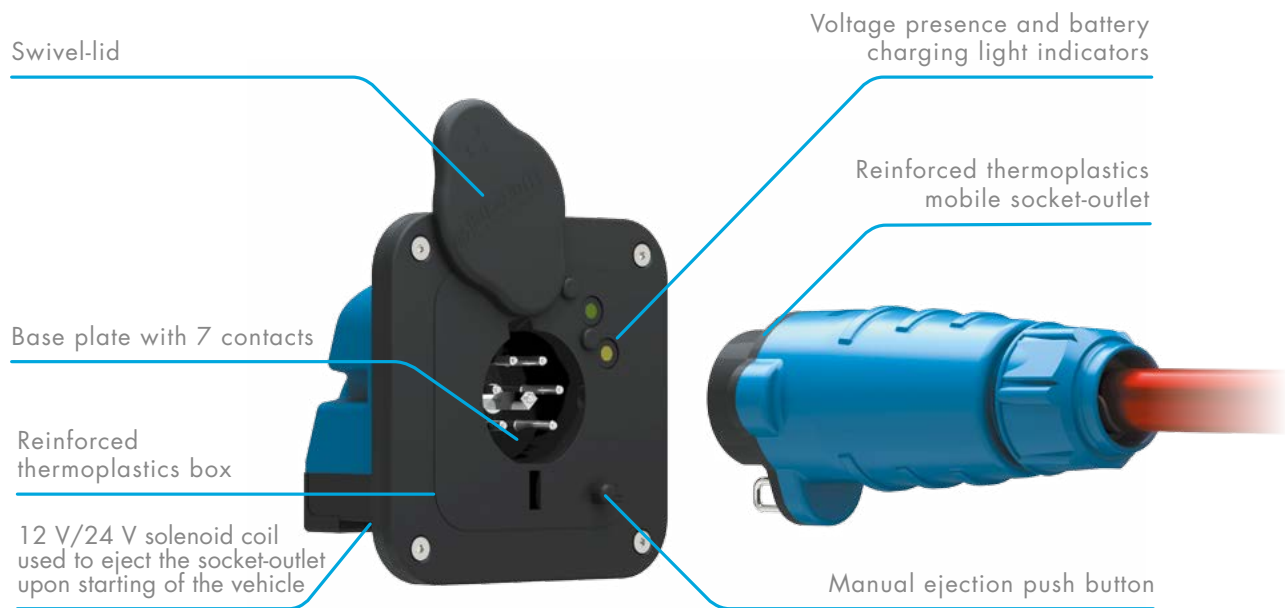
Convenient and time-saving disconnection without any need to start the vehicle

OUR KNOW-HOW

MARECHAL® PROVEN RELIABILITY FOR A DURABLE PRODUCT

We used the benefits of our 70 year-old expertise to provide you with the most reliable and durable product available to date in the market.

- Materials used (stainless steel, reinforced thermoplastics) ensure excellent resistance to impacts (IK08), UVs, temperature variations (-40°C/+60°C) and high electric isolation.
- Tested up to 10,000 mechanical mating and unmating cycles.
- Proven expertise amongst the most recognised vehicles manufacturers and converters (ambulances, autonomous vehicles, refrigerated trucks...).
- MARECHAL® butt contact technology is in use in more than 180 countries worldwide.
- **RETTBOX® S** is compatible with any type of battery charging station.



BUTT CONTACT TECHNOLOGY: AN UNRIVALLED MARECHAL® PATENTED FEATURE FOR OPTIMAL SAFETY

MARECHAL® connectors are all fitted with butt contacts with silver-nickel tips. They provide exceptional connection quality by eliminating the damage caused by electric arcs and the tear and wear effect experienced with pin and sleeve sockets. Silver is an excellent current conductor, even when oxidized.

Thanks to the pressure of the springs, conductivity is optimal even with the impacts of vibrations and temperature changes

Innovation

AN INNOVATIVE SOCKET-OUTLET. AN UNRIVALLED MARECHAL® PATENTED SYSTEM. A PROVEN SAFETY FOR END-USERS

MARECHAL ELECTRIC is synonymous with innovation. All our electrical connection solutions are patented to guarantee safety for end-users (self-ejection, ingress protection, poor weather and temperature resistance, high-quality materials, protection from live parts IPXXB).

RETTBOX® S ensures self ejection, preventing defaults to the electrical installation.

A green indicator as a standard confirms voltage presence. An optional yellow indicator confirms secure charging of the battery.

RETTBOX® S was designed to offer a flush-mounted plate recessed into the vehicle body frame. Discrete, low profile with rounded corners to avoid impact damage or injury. You can choose between the black reinforced thermoplastics and the stainless steel versions to best suit your finish and paint vehicle body.



An end-user friendly device

RETTBOX® S, A COMPACT SIZE TO OPTIMIZE THE ASSEMBLY ONTO THE VEHICLE

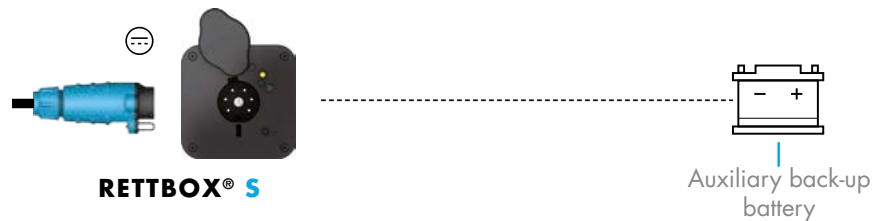
RETTBOX® S makes assembly, use and maintenance easy.

- Easy mounting, meaning time and costs savings:
 - FOR THE VEHICLE BODY CONVERTER : metal cutting, drilling, threaded inserts installation, wiring and box mounting;
 - FOR THE END-USER: plug-in with one hand only.
- Reduced internal volume: space saving and easy wiring.
- Small flush mounted plate on the vehicle body (16 mm): conveniently designed for simple integration.

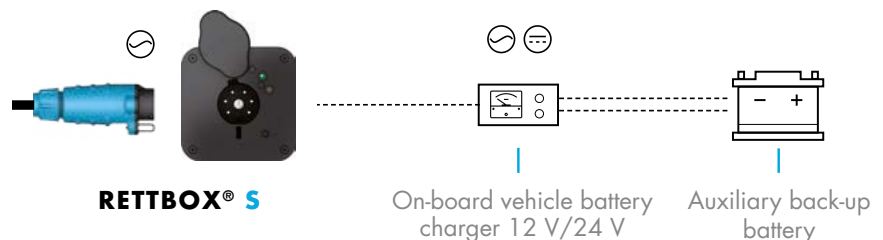
Configurations

CONNECTIONS TO THE MAINS/ TO THE BATTERY CHARGER

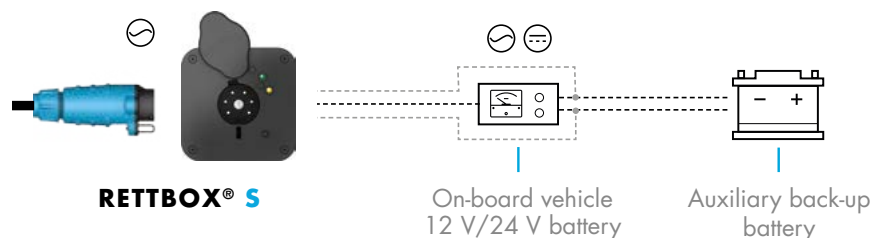
WITH AN EXTERNAL CHARGER: power supply with 12 V DC or 24 V DC



WITH AN ON-BOARD VEHICLE CHARGER: power supply with 230 V AC



OPTION: a yellow LED battery charging indicator



Information

TECHNICAL FEATURES

GRP VERSION

GENERAL INFORMATION		RETTBOX® S		
I_n	20A	20A	20A	20A
U_{max} (V AC/V DC)	12 V DC	24 V DC	230 V AC	
Number of contacts	6P+E			
Wiring: (min-max conductor section - mm ²) Flexible conductor: power contact	1.5 - 6			
Indicator light (presence of voltage)	Yellow	Yellow	Green	
MATING CYCLES				
Number of mechanical mating cycles	10 000			
ENVIRONMENTAL FEATURES				
Operating temperature (min/max) : °C	-40/+60			
MECHANICAL FEATURES				
IP: base with closed lid	IP54			
IP: source part	IP2X			
Resistance to shocks	IK08			
Ejection system	Automatic/Manual push button			
Casing: material	Reinforced thermoplastics			
UV protection according to UL 746C	f1			
Resistance to salt mist	> 50,000 h			
Fixations	Stainless steel screws			
MAIN OPTIONS				
Light indicator (battery charging)	NA	NA	Yellow	

RETTBOX® S complies with the European Low Voltage Directive and RoHS (CE marking), European REACH Regulation.



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