

Designed for vehicles equipped with 12 V batteries, the STARTRONIC HYBRID 950 is an ultra-powerful autonomous starter. It is equipped with a lithium-ion battery that can charge the supercapacitors. This innovative hybrid design gives speed of use and ensures a booster that is always operational.



A HIGH-PERFORMANCE HYBRID SYSTEM

The power of Batteryless technology

This technology guarantees high power and fast start-up using the residual voltage of the vehicle battery. It offers many advantages:

- no maintenance
- constantly operational even after years of storage.
- insensitive to extreme temperatures (-40°C / +65°C)
- With a long service life, it can be used 10,000 times without reducing its performance.

The advantage of a lithium-ion battery



Lithium-ion battery
réf. 027411

When the vehicle battery has no residual voltage, the lithium-ion battery (ref. 027411) is used, on demand, to pre-charge the supercapacitors.

At 100% of its capacity, it can recharge the supercapacitors 5 times.

SAFE STARTS GUARANTEED

With its power (950 A in start up), it can start all types of vehicles (petrol & diesel) equipped with a 12 V battery.

2 modes are available for maximum efficiency:

- **Bypass mode** to start a vehicle with a heavily discharged battery.
- **Glow mode** to start diesel engines in cold weather.

Safe electronic system :

- Anti short-circuit protection.
- Anti polarity reversal technology.
- Anti-deep discharge protection.

A FUNCTIONAL BOOSTER

The STARTRONIC has a **digital display** providing information on:

- the % load of the supercapacitors,
- the voltage of the vehicle battery,
- the charge level of the lithium battery,
- the indications for use,
- operating errors (e.g. reverse polarity).

Compact (2 kg), it is easily located in the trunk of a vehicle.

Its **developed connectivity** offers other solutions for precharging supercapacitors:

- on a 12V replacement battery (liquid, gel, AGM, Start&Stop) in 2 minutes.
- on a cigarette lighter socket (12 V / 10 A) in 3 minutes.

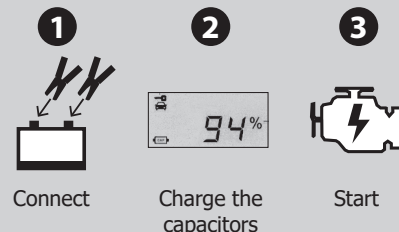
The lithium-ion battery also works as **an external power supply** for high-tech products (touch tablets, smartphones...), thanks to its USB output (5 V / 2 A).



Micro USB port (5 V / 2 A)

Power port (for 12 V / 10 A cigarette lighter socket)

EASE-OF-USE



Connect

Charge the capacitors

Start

Supplied with:



USB cable



Cigarette lighter plug

START	12V	Capacitors	C Capacitance	INPUT CHARGE								POWER SUPPLY	cm	kg		
				for capacitors			for battery lithium			MICRO USB Type B						
950 A	12V	5 x 800 F	160 F	12V	Charging time	12 V / 10 A	Charging time	5 V / 2 A	Charging time	5 V / 2 A	Charging time	5 V / 2 A	5 h	5 V / 2 A	26.7 x 19.5 x 5	2
					2 min		3 min		2 min		5 h					