

# **SUPER J500**

## **BATTERY FREE JUMP STARTER**

**Super Capacitor EDLC technology inside.**

**NO HEAVY INTERNAL BATTERIES!**

- No maintenance
- Energy efficient
- Lightweight
- No leakage



**Ready to jump start a vehicle in less than 180 seconds!**

**Recharge from the vehicle's own FLAT battery**



**5000A CRANKING POWER**

PETROL



ENGINES UP TO 5.0L

DIESEL



ENGINES UP TO 3.0L



NO INTERNAL BATTERIES



### What is a Super Capacitor jump starter?

A super capacitor jump starter differs from traditional battery powered jump starters in that it has no internal battery at all. It actually uses Electric Double Layer Capacitor (EDLC) super capacitor technology - or in very simple terms, a form of static electricity where charge is built up and quickly released.

If you have ever experienced a zap of static electricity from friction with carpet, a super capacitor works in a similar way. With little to no internal resistance, a super capacitor can be charged almost instantly but unable to store the energy for very long before discharging - from a few seconds to a few minutes.

As jump starting a vehicle only requires a short surge of reasonably high energy discharge, this makes super capacitors suitable for use in a jump starter.

**The SUPER J500 is able to charge and activate by drawing energy from the broken down vehicle's own FLAT battery to jump start it.**

With no internal battery, a super capacitor jump starter is also much lighter and extremely safe and easy to use with NO STORAGE and NO TRANSPORTATION concerns.

### What is the main advantage of a Super Capacitor jump starter over a lithium jump starter?

A lithium jump starter requires regular recharging to keep its internal batteries in optimum working condition. This means it can take a long time to recharge (overnight in some cases) and if you happen to forget, you may find yourself stuck on a motorway with a flat car battery AND a flat jump starter.

Having no internal batteries to worry about, the SUPER J500 jump starter does not need regular recharging; only charge when needed. Thanks to super capacitor technology, it can be charged and ready to jump start a vehicle in less than 180 seconds!

### What engines can the SUPER J500 jump start?

The SUPER J500 provides 500 Amp cranking power output.

Designed for automotive and marine 12V applications with petrol engines up to 5.0L and diesel engines up to 3.0L\*, the SUPER J500 makes vehicle jump starting quick and easy.

### How long will the SUPER J500 last?

The SUPER J500 jump starter can tolerate many more charge and discharge cycles than rechargeable battery powered jump starters (> 500,000 cycles).

This is compared to a typical lithium battery (~500 - 2000 cycles).

### How do I charge/activate the SUPER J500?

The SUPER J500 can be charged in no time at all via connection to a 12V battery or a 12V cig. outlet – it takes less than 180 seconds!

The SUPER J500 can even be charged up from USB power (5V 2.0A) like via a powerbank (<25 minutes charge time).

### Is the SUPER J500 difficult to use?

No. The SUPER J500 is microprocessor controlled for ease of use and safety. When jump starting in AUTO Mode: simply connect the alligator clips to the battery terminals, ensuring correct polarity, and let the SUPER J500 do the rest.

### What are the operating conditions for the SUPER J500?

The SUPER J500 has excellent low temperature endurance and can be used normally in operating temperatures within the range of -40°C ~ +60°C (compared to -20°C ~ +45°C for a typical lithium battery).

### Does a super capacitor jump starter require maintenance?

No. With no internal batteries, a super capacitor jump starter:

- does not require regular recharging
- is not subject to self discharge
- is extremely energy efficient with little to no internal resistance
- is always ready to use when you need it - because no one plans for their car battery to fail.

### Is a Super Capacitor jump starter safe to use?

While a super capacitor jump starter is generally safe and easy to use, working with lead acid batteries carries inherent risks. Please read and follow the instruction manual included with every Battery Fighter Super Capacitor jump starter for your safety and keeping your jump starter in good working condition.

Additionally, the SUPER J500 is designed with:

- Overload protection
- Reverse polarity protection
- Over charge protection
- Over temperature protection
- IP65 rated dust proof and water resistant
- Flame retardant housing

### What is included with the SUPER J500?

- SUPER J500 (SC500F) with alligator clip jumper cables
- 12VDC cigarette car cable
- USB charge cable
- Carry bag and instruction manual

### What is the warranty for the SUPER J500?

3 years Manufacturers Warranty. Please hold onto your proof of purchase.

*\*The SUPER J500 may not be suitable for certain Diesel engines that require high power to activate the vehicle's glow plug. Please refer to vehicle manufacturer's instructions before use.*