

## LV1999 Powercon ULTRA-CAPACITOR JUMP STARTER

The Powercon Ultra-Capacitor Jump Starter uses 4 methods of providing power to jump start a vehicle with a dead battery.

### Method 1

While a battery can get to a discharged state that makes it impossible to start a vehicle, a battery in this condition can still contain quite a lot of stored energy, just not be able to deliver it quickly enough to a starter motor that needs large amounts of energy delivered quickly.

The Powercon Ultra-Capacitor Jump Starter is unlike most Jump Packs in that instead of using either a Wet Cell Battery or a Lithium type of battery as the power source, the LV1999 uses the residual power that is left in the host battery to charge itself up depending on its charge status. Capacitors have the ability to deliver this accumulated power very quickly as required by the starter motor to start the vehicle. This process can take from 1 to 3 Minutes.

### Method 2

If the vehicle battery is completely discharged then the LV1999 has a small internal Lithium battery that while it does not in itself have the ability to deliver sufficient power quickly enough to start the vehicle like the vehicle "flat" battery it does have the ability to charge the capacitor in readiness for a start. This can take up to 8 Minutes.

### Method 3

The LV1999 can also be charged from the 12V DC input socket from a nearby vehicle which can take around 5 minutes.

### Method 4

The LV1999 can be charged from a 240Volt AC point taking up to 40 Minutes if flat. Please read the Instruction Manual supplied with the LV1999 for full instructions on use.

