



**ADD CAP 820**

**ADD CAP 1640**

## 1. Description

AddCAP 820 and AddCAP 1640 are add-on capacitor units designed to enhance battery power supply for drive systems using low-impedance electric motors (1-2 pole). They should also be used when the wires from your battery to your ESC need to be lengthened more than 20cm (8 inches). In cases where the wires are longer, use one AddCAP 820 or AddCAP 1640 for each 20cm (8 inch) section. Another advantage of adding an additional capacitor is to reduce possible interference which may be caused by current moving through your power wires. Recommended for use with 2.5-6 mm<sup>2</sup> (14AWG – 10AWG) wires.

## 2. Parameters

	AddCAP 820	AddCAP 1640
Maximum voltage:	59V	59V
Dimensions:	60x19x18 mm	60x35x24 mm
Weight:	13g	27g

## 3. Installation procedure

1. Prepare the cables and tin (pre-solder) their ends.
2. Put the large piece of heat shrink tubing over the power wires. It will be slipped over the capacitor once the power wires have been installed. Be sure to keep this tubing far enough away from the unit while you are working so that it does not get shrunk when soldering the power cables.
3. Put the small shrink tubing over the cables at the wire support tabs (match the colors, see picture 1), align the ends of the cables on the prepared solder pads as shown (cable ends should be as close to each other as possible), then shrink the cables to the support tabs on the PCB using a heat gun.
4. Carefully solder the cables (see picture 2).
5. Put the large piece of heat shrink tubing over the capacitor. Shrink it with a heat gun and apply the sticker (see picture 3).

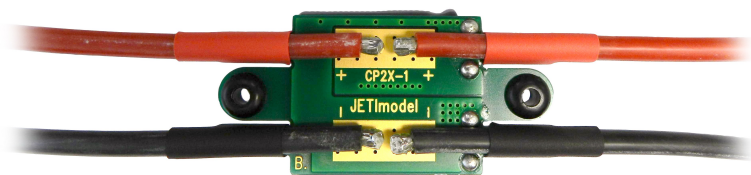


Fig. 1

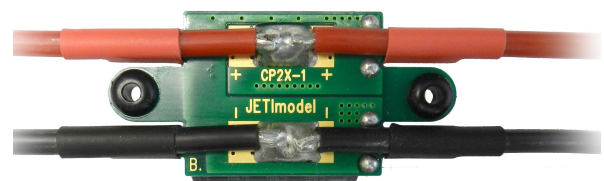


Fig. 2



Fig. 3