



# TaKAI PowerCell\_v2



The PowerCell is suggested to supplement existing high resistance batteries for instant burst power in high energy systems such as amplified circuits, and our high current inductive ignition systems.

⇒ PowerCell, is the latest low ESR power bank using nano structures bolstering an impressive 98% efficiency rate. PowerCell is compatible with all high current loads such as ignition systems, fuel systems, and power amplifiers.



**CAUTION:** The capacitor must be charged before connecting the Power and Ground cables to the capacitor. Failure to charge the capacitor will result in a large spark generated from the rapid inflow of current.

## ▶ FEATURES

- 80 ampere burst output capability
- Graphene nanotube technology allows up to 98% efficiency
- Line conditioning, instant power delivery due to low Power Bank ESR

## ▶ COMPATIBILITY

- ALL HEAVY LOAD CURRENT SYSTEMS USING DC POWER UP TO 16.8V

## ▶ APPLICATIONS

- IGNITION AMPLIFIERS, AUDIO AMPLIFIERS, FUEL SYSTEMS
- ECU BATTERY BACKUP, ECU LINE CONDITIONING

## ▶ SPECIFICATIONS

### Electrical

#### 1 POWER CHANNEL

- Output current:
  - Suggested load bolster - 12ampere for 1.5 seconds
  - Pulsed - 80 amperes
- Leakage current 0.26mA
- Max ESR - 0.007 ohms
- 0.1 volts DC minimum
- 16.8 volts DC maximum
- Operating Temperature Range -40 - 85 degrees celsius
- Projected Lifespan - 10 years
- 2.2 Farad Ultracapacitor

### Physical

- Size: 56mm x 45mm x 21.5mm
- Weight: approx 220 grams plus connectors
- Connectors:
  - Input: 12AWG STRANDED RED
  - Output: 12AWG STRANDED BLACK
- Maximum case temperature 85 degrees C

#### CHARGING / DISCHARGING

Place a light bulb or resistor in series with the positive red wire during initial connection for 2 minutes. The charging bulb should go out once fully charged. Disconnect bulb, and connect power bank directly to the source voltage.

To discharge use a resistor or light bulb across the positive and negative wires on the Power Bank for 2 minutes. The light will go out once fully discharged.