

SolarInnovate Energy Solutions

Super Motor Capacitor



Overview

Does a DC DC converter need a super capacitor?

So adding super capacitors at the output and starting the motor as the DC DC converter turns on is of no use, as the DC DC converter will not charge up the super caps instantly and will go into current limit mode as it did with just the motor.

How does a capacitor converter work?

My understanding is that the converter will slowly charge up the caps initially, and once the motors gain momentum, it will draw the in-rush current from the capacitor bank. Once the motor starts turning, a back-EMF is generated in the motor due to which an inrush current does not flow into the motor.

How many amps can a SuperCap handle?

@MicroservicesOnDDD the solution will handle as many amps as the supercaps and FETs / relay allows. It entirely depends on the choice of components. This 2.7 volt, 3,000 Farad supercap has an ESR of 0.26mOhm, and is rated for 2,000A! That just may weld your relay shut.

Do Supercaps need constant current charging?

Yes, constant current charging of the supercaps will be necessary. It might be more challenging when you electrically attach the fully-charged supercaps to the stationary motor. Probably needs many big FETs in parallel, like a spot-welder. I would love to see how many amps your solution ultimately ends up handling.

How much power does a farad SuperCap have?

It entirely depends on the choice of components. This 2.7 volt, 3,000 Farad supercap has an ESR of 0.26mOhm, and is rated for 2,000A! That just may weld your relay shut. That's what I was referring to.

How do you connect a DC DC converter to a motor?

But what you can do is connect a super cap to the output of the DC DC converter and then connect the motor to the DC DC converter + supercap bank through a mechanical relay or a solid state relay. Then, turn on the DC DC converter and let its output voltage rise up. Then, close the relay.

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Pool Pump Motor Start Capacitor CD60 50/60Hz Fits for Hayward Super

Mar 13, 2024 · About this item ?Product Compatibility? This start capacitor fits for Hayward Super Pump and Max Flo pumps 0.75HP, 1.0HP, and 1.5HP,Used on both 110 volt & 220 volt ...

Pool Pump Motor Start Capacitor For Hayward Super Pump ...

Jul 23, 2025 · Product Feature: * Fitment: This replacement start capacitor fits for Hayward .75HP, 1.0HP, and 1.5HP Super Pump and Max Flo pumps, both 110 volt & 220 volt motors. * Specs: ...



Pool Pump Motor Start Capacitor CD60 50/60Hz fits for Hayward Super

Jul 26, 2023 · This start capacitor fits for Hayward Super Pump and Max Flo pumps 0.75HP, 1.0HP, and 1.5HP,Used on both 110 volt & 220 volt motors. Round Motor Well Pump Start ...

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