

Should I build my own capacitive discharge spot welder?

I decided to build my own capacitive discharge (CD) spot welder after being frustrated by the low quality and high cost of commercial units. Anyone building battery packs using cylindrical lithium batteries should, with some exceptions, be using a capacitive discharge spot welder.

Can supercapacitors be used in a spot welder?

Of course It certainly is possible to use supercapacitors in a spot welder, as I saw some existing designs, but they usually have precise pulse control with MOSFETs and microcontrollers, and these supercaps are treated in similar way as batteries. Regular electrolytic capacitors are easier to use without sophisticated pulse control system.

How do you Weld a capacitor?

Place one of the probes on the bottom metal piece & press the other probe on the top metal sheet. Some sparks will fly, after which you should see a secure weld nugget. Fully Discharge the capacitor after every weld.

Can a spot welder use a Nichicon capacitor?

Currently this spot welder uses automotive grade Nichicon capacitors. It would be a good idea to check the feasibility of using cheaper capacitors, and test if it's better to use higher voltage ratings, or higher capacity. I managed to capture oscilloscope image of the pulse with an old analog Philips PM3226 oscilloscope.

What is a dual pulse capacitive discharge spot welder?

This Instructables includes plans to build a dual pulse capacitive discharge spot welder that can output 400 amps in 60 micro seconds. The reason for this a portable capacitive discharge spot welder, which can be used to aid in the process of building a battery pack for the UMD Bulldogbots combat robot team.

Does a spot welder need a microcontroller?

This spot welder, unlike many available DIY projects, doesn't need a microcontroller to work: the welding pulse is triggered using relay module and a timing capacitor. Welding current is switched with an old recycled industrial thyristor module. Pulse energy can be adjusted with a potentiometer, which changes the voltage of capacitor bank.

DIY Portable 12V Battery Energy Storage Spot Welding Machine P.C.B Circuit Board Welding Equipment Spot Mini Welder Set Pen For 18650 26650 32650 Battery Welding Machine Battery Welding Tools Set ? 1,499.00

CUZONE Battery Spot Welder, 11.6 KW Capacitor Energy Storage Pulse Welding Machine, ... DIY & Tools Skip to main content .uk. Delivering to London W1D 7 Update ... 11.6 KW Capacitor Energy Storage Pulse



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Welding Machine, Portable Precision Spot Welding Equipment with 70A Welding Pen for Battery Pack Building ...

Heltec new spot welding models are more powerful with max peak pulse power of 42KW. You can select the peak current from 6000A to 7000A. Specially designed for welding copper, aluminum and nickel conversion sheet, SW02 series support thicker copper, pure nickel, nickel-aluminum and other metals welded easily and firmly (support nickel plated copper sheet and pure nickel ...

SeeSii 801D Spot Welder, 12KW Capacitor Energy Storage Pulse Battery Spot Welder with 73B Welding Pen, Support 2 Welding Modes Enhanced 0.1-0.3mm Nickel Strip for DIY and Industrial Spot Welding 4.1 out of 5 stars 22

GLITTER 801H+ Battery Spot Welder Capacitor Energy Storage Pulse Welding Machine; GLITTER 801H+ Battery Spot Welder Capacitor Energy Storage Pulse Welding Machine ... GLITTER 801H+ Battery Spot Welder Capacitor Energy Storage Pulse Welding Machine. Rating * Name Review Subject * Comments * \$279.99) SKU: JFBSW00045. UPC: 888107102960 ...

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The Spot Welding Machine 250 Gears Power Adjustment 110V-240V is a high-performing and versatile welding machine. It incorporates the utilization of double capacitors for effective energy storage which ensures more efficient and high-speed welding capabilities.

This is a DIY Portable 12 V Battery Energy Storage Spot Welding PCB Circuit Boar. This Circuit contains an Electronic Welding Module that is the main thing in this whole product. Spot welding is welded by the principle of rapid local heating and cooling by high current. This Product is much portable and durable that it can easily carry anywhere.

Product Description. Product Features. The newly designed U.S. Solid USS-BSW00004 high-frequency inversion battery spot welder equips with the two super capacitors for energy storage and power supply for pulse welding. Unlike traditional AC transformer spot welders, it is more portable and it does not cause any interference to the electric circuit, eliminating tripping ...

Heltec SW01 series spot welding machines are capacitor storage welding machines. They're high power spot welders with max peak pulse power of 21KW. You can select the peak current from 2000A, 2500A to 3500A. It is easier for you to use the correct spot welding mode with the dual-mode function key on them.

Shop GLITTER 811H Battery Spot Welding Machine 42 KW Capacitor Energy Storage Pulse Welding



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Machine, Portable High Performance Spot Welding Equipment for 18650, LiFePO4 and Copper Metal Welding. ... DIY & Tools Deals & Savings Power Tools Hand Tools Garden Tools Hardware & Supplies Electrical Decorating ... GLITTER 811H Battery Spot ...

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DIY Portable 12V Battery Energy Storage Spot Welding PCB Circuit Board This circuit with a 12V battery will become a storage spot welding machine for lithium battery, nickel-chromium battery and other nickel sheet welding, according to different configurations can be welded thickness of 0.1MM-0.15mm or so. Button funct

DIY Battery Spot Welder!: While I'm working on a future project which involves dozens of 18650 Li-ion cells for which I need a Battery Spot Welder. Which is expensive and not really difficult ...

801A Capacitor Energy-Storage Precision Pulse Spot Welder Super Energy-Gathered Pulse Technology. Features: 1. Compared to the traditional AC spot welding machine,the new-designed 801A capacitor energy-storage spot welder has no interfere to the electric circuit, no more tripping problems.

This spot welder, unlike many available DIY projects, doesn't need a microcontroller to work: the welding pulse is triggered using relay module and a timing capacitor. Welding current is switched with an old recycled industrial thyristor module. Pulse energy can be adjusted with a potentiometer, which changes the voltage of capacitor bank.

GLITTER 801D Battery Spot Welder Capacitor Energy Storage Pulse Welding Machine; GLITTER 801D Battery Spot Welder Capacitor Energy Storage Pulse Welding Machine ... GLITTER 801D Battery Spot Welder Capacitor Energy Storage Pulse Welding Machine. Rating * Name Review Subject * Comments * \$149.99) SKU: JFBSW00003. UPC: 888107099727 ...

Specification: Item Type: Battery Spot Welder Material: PP Model : 812A Pulse Power: 15KW Energy Setting Level: 0-99T(0.3ms/T) Pulse Time: 0-30ms Peak Welding Current: 2500A (maximum) First Time: Approx. 18 minutes Energy Storage Current: 5-6A Output Voltage: 5-6V Peak Welding Energy: 450J Trigger Mode: Auto trigger AT Foot trigger MT AT Preload ...

8000W Spot Welder,Handheld Spot Welder,Portable Spot Welder Machine DIY Kit,High Power Handheld Spot Welding Machine,with nickel strip and spot welding pen,for 18650 Battery Pack Welding Tools ... 120 Levels Adjust Spot Welding Machine 18650 Battery Energy Storage, Nickel Strip Support 0.1-0.4mm. 3.7 out of 5 stars ... Remove. SeeSii 801D Spot ...



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SeeSii 801D Spot Welder, 12KW Capacitor Energy Storage Pulse Battery Spot Welder with 73B Welding Pen, Support 2 Welding Modes Enhanced 0.1-0.3mm Nickel Strip for DIY and Industrial Spot Welding 4.1 out ...

The U.S. Solid Battery Spot Welder Capacitor Energy Storage Pulse Welding Machine is an exceptionally flexible and portable welding choice that is perfect for certain electric initiatives. This welding system offers a welding thickness range of zero.05 mm to zero.2 mm, making it a notable alternative for those looking for a lower variety of ...

Heltec spot welding machines are capacitor storage welding machines with safety certification. They're high power spot welders with max peak pulse power of 19.8KW. You can select the peak current from 2000A, 2500A to 3500A. It is easier for you to use the correct spot welding mode with the dual-mode function key on them.

801D Battery Spot Welder Capacitor Energy Storage Type Precision Pulse Welding Machine AC100-240V(U.S. regulations) : ... In order to ensure the normal use of the energy storage spot welding machine, the original standard power adapter must be used to supply power to the device, otherwise it will failure of normal charging or damage to the ...

U.S. Solid USS-BSW08 Battery Spot Welder 42 KW 7000A Capacitor Energy Storage Pulse Welding Machine, ... Docreate 8000W Spot Welder,Handheld Spot Welder,Portable Spot Welder Machine DIY Kit,High Power Handheld Spot Welding Machine,with nickel strip and spot welding pen,for 18650 Battery Pack Welding Tools.

GLITTER 801H Battery Spot Welder 21 KW Capacitor Energy Storage Pulse Welding Machine, Mini Portable Spot Welding Equipment for 18650, LiFePO4 Lithium Battery Pack Building - Amazon ... Support 2 Welding Modes Enhanced 0.1-0.3mm Nickel Strip for DIY and Industrial Spot Welding. ... U.S. Solid USS-BSW07 Battery Spot Welder 21 KW 3500A ...

U.S. Solid USS-BSW04 Battery Spot Welder 10.6 KW 2000A Capacitor Energy Storage Pulse Welding Machine, Mini Portable Spot Welding Equipment for Cell Phone Battery, 18650 Lithium Battery Pack Building - Amazon ... Support 2 Welding Modes Enhanced 0.1-0.3mm Nickel Strip for DIY and Industrial Spot Welding. ... Capacitor Energy Storage Precise ...

The capacitor bank serves as the energy storage for our welding machine, providing the necessary power to create an electric arc. To build the capacitor bank, we will be using a series of individual capacitors connected in parallel to increase the capacity of the bank. ... Some DIY welding machines can handle small to medium welding tasks ...



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DIY Kits. Arduino DIY Kits; Wooden Kits; STEM DIY Kits; LEGO Kits; Robotics Arm. Servo Motors; Servo Motor Controller; ... GLITTER 801D Battery Spot Welder 12 KW Capacitor Energy Storage Spot Welding Machine, Mini Portable Precision Pulse Battery Welding Equipment for 18650, 14500 Lithium Battery Pack Building quantity. Add to cart Buy now

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