

# **Solar panels charge nickel-cadmium batteries**





## Overview

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How to charge a solar Ni-Cd battery?

When regulating the final charging voltage for this solar Ni-Cd charger circuit, it'd be best if you could momentarily replace the batteries with an adjustable DC power supply. Fundamentally, the output is configured to 2.88 V. Next, connect a voltmeter across power resistor R7.

What is a nickel cadmium (Ni-Cad) battery?

Nickel-cadmium (Ni-Cad) batteries are secondary, or rechargeable batteries, and have several advantages over lead-acid batteries that make them attractive for use in stand-alone PV systems.

What type of battery do solar panels use?

In stand-alone systems, the power generated by the solar panels is usually used to charge a lead-acid battery. Other types of battery such as nickel-cadmium batteries may be used, but the advantages of the lead-acid battery ensure that it is still the most popular choice.

How many solar cells are used to charge NiCad battery?

At the right side of circuit diagram, 12 solar cells are used to charge battery. Integrated circuit MAX639 is used to regulate charges from solar cells to NiCad battery. MAX639 is switching regulator which is used to step down voltage. It provides a wide range of output current. It can provide maximum output current of 200mA in safe range.



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