

# Outdoor inverter with resistor discharge





## Overview

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What is a discharge resistor?

The resistance of the discharge resistor is either 3,9 kOhm or 39 kOhm depending on which inverter variant is selected (small/large system option, see the datasheet for more information). This discharge resistor is activated automatically to reduce the DC-link voltage when the device is shut off or trips to a hardware fault.

Does the ec-c1200 inverter have a discharge resistor?

The EC-C1200 inverter has an internal discharge resistor, highlighted in the schematic below. The resistance of the discharge resistor is either 3,9 kOhm or 39 kOhm depending on which inverter variant is selected (small/large system option, see the datasheet for more information).

Can a discharge resistor force a DC-link voltage to zero?

Note that the discharge resistor cannot force the DC-link voltage to zero if there is some device actively feeding power into the DC-link, since the maximum dissipation power of the discharge resistor is very limited due to the high resistance.

What is a CSN® discharge resistor?

We ensure safe discharging of your system. CSN® discharge resistors are used in electronic circuits to safely discharge energy storage devices such as capacitors or batteries.



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### [Outdoor DC/AC inverter, Outdoor inverter](#)

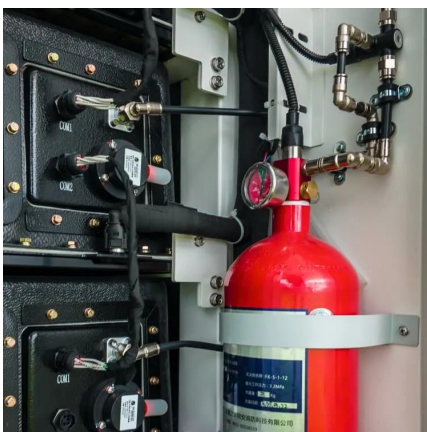
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### [Resistor solutions within inverter applications](#)

Inverter Power Resistor Applications The image below shows a typical inverter topology with the various resistor requirements highlighted. These requirements may include ...

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### Discharge resistors

CSN® discharge resistors are designed and manufactured individually according to customer specifications and application. Product advantages Technically mature, proven design for outdoor or indoor operation ...

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### [How to Reduce the Power Resistor for DC-Link ...](#)

The DC-Link capacitor is a part of every traction inverter and is positioned in parallel with the high-voltage battery and the power stage (see Figure 1). The DC-Link ...



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### [SANDI 200KW off grid inverter IP54 outdoor ...](#)

Product Description SANDI SDP-200KW off grid solar inverter IP54 outdoor three phase hybrid inverter with CSA/ UL1741 Product Introduction SANDI SDP series Pure Sine Wave Inverter is the one of the ...

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### Discharge resistors

A discharge resistor is used for the targeted and controlled voltage discharge of electrical energy storage devices such as batteries or capacitors. Discharge resistors are used wherever components need to be de ...

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## SANDI 200KW off grid inverter IP54 outdoor three phase inverter ...

Product Description SANDI SDP-200KW off grid solar inverter IP54 outdoor three phase hybrid inverter with CSA/ UL1741 Product Introduction SANDI SDP series Pure Sine ...

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## [Calculation example - discharging circuit](#)

Calculating an active discharge for the quad inverter by using of 3 watts of power resistors. 5 capacitors (each 15  $\mu$ F) are connected in parallel for each inverter. The discharge ...

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## POWERTRAIN PRE

DIScharge resistors are typically used in the inverter to discharge the DC-Link capacitor after driving. The design of our DIScharge resistors varies in the shape, size and ...

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