



FTMRS SOLAR

High quality 1 2 kva inverter in El-Salvador





Overview

How to choose a solar inverter kVA rating?

In order for the inverter to work optimally, the inverter kVA Rating must match the load requirements, adjust the capacity of the solar panels, and, if the inverter used is an off-grid inverter, affect the selection of battery capacity because the higher the kVA, the more current will be drawn from DC.

How many kVA does an inverter have?

$kVA = \text{Total Wattage} / (\text{power factor} \times 1000)$

$$kVA = 775 / (0,8 \times 1000) \text{ kVA} = 0,96875 \text{ kVA}$$

When the calculation results are rounded up, an inverter kVA rating of 1.2 or 1.5 kVA is required. Understanding an inverter's kVA rating is not just a technical detail but a foundational element in creating a reliable power backup solution.

What is a solar inverter?

An inverter is a device designed to convert the power produced by sunlight absorbed by solar panels in the form of DC into AC that can turn on electronic devices around.

Which Inverter should I use?

Using a pure sine wave inverter is recommended for maximum wave results. In light industrial applications with high inductive loads, the inverter kVA rating ranges from 10 kVA to 30 kVA or even more. The inverters are also designed to handle large surge currents with multi-phase battery systems.



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This DC current is then converted by the solar inverter to alternating current (AC). The excess electricity can be stored or sent back to the grid through processes like net metering.

EL SALVADOR POWER INVERTERS AND SOLAR PANELS

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