

# Top 10 solar inverter patents



## Overview

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According to the ranking list, LG Group, Jinko Solar and AIKO Technology rank the first, second and third place respectively, with 1,360 patents, 1,101 patents, and 931 patents accordingly, followed by CSIQ, Panasonic Electric, Samsung Group, LONGi, Sony, KANEKA. According to the ranking list, LG Group, Jinko Solar and AIKO Technology rank the first, second and third place respectively, with 1,360 patents, 1,101 patents, and 931 patents accordingly, followed by CSIQ, Panasonic Electric, Samsung Group, LONGi, Sony, KANEKA. 24 Total Patents Across 4 Families, with 8 Representative Claim Charts

Tangible IP is pleased to represent Dr. Rajiv Varma's pioneering work highlighting technologies relevant to Solar Photovoltaic (PV) Inverters. The portfolio consists of 4 patent families including 24 patents assets in total (20). The invention relates to improved techniques for manufacturing power conditioning units (inverters) for use with photovoltaic (PV) modules, and to inverters manufactured by these techniques. A solar inverter or PV inverter, is a type of electrical converter which converts the variable direct current (DC) output of a photovoltaic (PV) solar panel into a utility frequency. With the advent of the year 2000, residential solar systems came into the market with the invention of the first solar inverter by scientists in Sandia Laboratories, Albuquerque, New Mexico. Time range of data extraction: May 1. An inverter device has an active ripple cancellation boost circuit being configured to a DC source from a plurality of solar cells and configured to filter an AC current ripple back to the DC source and boost the DC voltage to an intermediary 12-15 voltage range. The device has a wave shaper.

## Top 10 solar inverter patents

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### Global Ranking of Solar Cell Patents (TOP 30)

The abovementioned ranking of applicants in terms of patent applications, to some extent, reflects their technological innovation capabilities in solar cells. An overwhelming majority of ...

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### WO2013185763A1

BACKGROUND OF THE INVENTION [0002]  
Solar inverters are well known. The standard elements are: a DC (input) module, an inverter module and an AC (output) module. The DC module includes a

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## Top 10 Solar Inverters in the

## World

With this, our list of the top 10 solar inverters in the world comes to an end, but there is more ahead. After this, let's learn about the largest solar inverter manufacturers in the world.

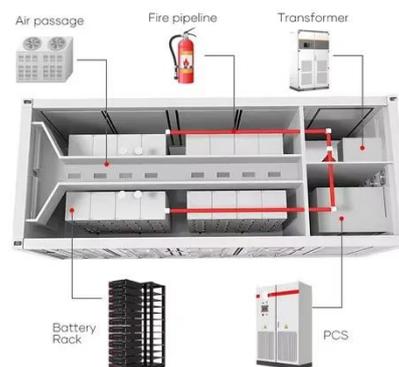


## Solar inverter and control method

With the rising cost and scarcity of conventional energy sources and concerns about the environment, there is a significant interest in alternative energy sources such as solar power and wind

## Solar inverter patented technology retrieval search results

This page includes the patent name, patent number, legal status, invention/applicant, technical efficacy and accompanying drawings of Solar inverter-related invention patents and utility model patents, ...



## Solar photovoltaic inverters

We have previously described a range of



improved techniques for increasing reliability and efficiency in photovoltaic inverters (see, for example, WO2007/080429 and others of our published patent ...

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## Solar PV Inverter Patent Portfolio , Tangible IP

The portfolio consists of 4 patent families including 24 patents assets in total (20 granted- 4 pending), 10 issued US patents along with 10 granted foreign counterparts in Europe (Germany, ...



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## US Patent for Solar inverter Patent (Patent

Since the discovery of the photoelectric effect, solar inverters have been designed to convert direct current (DC) electricity produced by solar cells or panels into alternating current (AC).

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## Top 10 Solar Inverters in the World

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