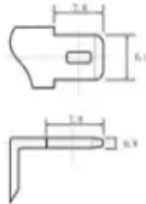
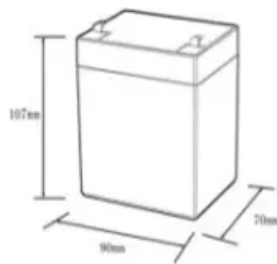


PDEOZE PowerContainer

Bidirectional DC72 inverter

12.8V6Ah



Nominal voltage (V):12.8
Nominal capacity (ah):6
Rated energy (WH):76.8
Maximum charging voltage (V):14.6
Maximum charging current (a):6
Floating charge voltage (V):13.6~13.8
Maximum continuous discharge current (a):10
Maximum peak discharge current @10 seconds (a):20
Maximum load power (W):100
Discharge cut-off voltage (V):10.8
Charging temperature (°C):0~+50
Discharge temperature (°C): -20~+60
Working humidity: <95% R.H (non condensing)
Number of cycles (25 °C, 0.5c, 100%dod): >2000
Cell combination mode: 32700-4s1p
Terminal specification: T2 (6.3mm)
Protection grade: IP65
Overall dimension (mm):90*70*107mm
Reference weight (kg):0.7
Certification: un38.3/msds

Overview

What is a bidirectional DC-DC converter?

Bidirectional DC-DC converters are indispensable in providing power from storage batteries to the power system, and vice versa, providing power from the power system to the storage battery.

How a DC-DC converter is used in a PV-inverter system?

Highly efficient and bidirectional operation uses isolated DC-DC converters to create a PV-inverter system that utilizes limited power with low-loss performance. The power switching devices used significantly influence the efficiency of power conversion systems. The main aim is to reduce the switching losses.

Why do you need a bidirectional inverter?

Bidirectional inverters also keep your electricity running if disaster strikes. During an outage, a bidirectional inverter will immediately switch your power source from the AC outlet to your battery. This is the reason why bidirectional inverters are considered nowadays when it comes to Uninterruptible Power Supply (UPS) feature.

Should I add a bidirectional inverter to my solar power system?

Adding a bidirectional inverter to your solar power system makes it more efficient, provides a higher safety standard, and gives more flexibility for charging options (which comes in handy when sunlight is scarce). But before we tackle those, let's go through a typical solar plus storage setup to highlight the impact of bidirectional inverters.

Why should you use a bidirectional inverter during a power outage?

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Supply (UPS) feature. However, you should take this information with a grain of salt.

What is a bidirectional DC/DC converter in a battery charge/discharge system?

In a battery charge/discharge system, the bidirectional DC/DC converter can be a four-switch buck-boost converter when V_{out} is near the battery operation voltage, or it can be a boost converter when V_{out} is always higher than the battery voltage, or it can be a buck converter when V_{out} is always lower than the battery voltage.

Bidirectional DC72 inverter

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buck converter when V_{out} is always lower than the battery voltage.

This article introduces a reference design for an "isolated bidirectional DC-DC power supply" that can be used as the basis for high-power conversion applications, including EV charging ...

With the wide use of energy storage devices such as batteries and supercapacitors, the current trend is to simplify battery charge and discharge management. A bidirectional DC/DC ...

Applications of Bi-Directional Converters What is a Bi-Directional Converter Bi-directional converters use the same power stage to transfer power in either directions in a power system.

These inverters will be deployed in tactical vehicles to enable efficient and flexible power management, allowing vehicles to transition smoothly between generator power (VAC) ...

Whether in residential solar setups or large-scale Battery Energy Storage Systems (BESS), bi-directional inverters ensure seamless power flow in both directions--charging and ...

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Bidirectional high-efficient DC/DC power converters. With a wide range of voltage levels in both sides, the EPCs are capable of managing power in both directions.

The 25 kW bi-directional T-type inverter demonstrates the performance of Wolfspeed's 650 V and 1200 V silicon carbide (SiC) MOSFETs within high power renewable energy systems such as ...

Bidirectional inverter technology is an emerging technology that allows both AC-DC and DC-AC conversions. We explain how bidirectional inverter works and more

Unlike traditional inverters, which typically operate in a single direction (DC to AC), bidirectional inverters operate in both directions, enabling two-way energy flow.

Contact Us

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<https://www.pdeozepv.pl>