

## Solar Energy South Africa

# Solar power generation panel dual circuit



✓ IP65/IP55 OUTDOOR CABINET

✓ ALUMINUM

✓ OUTDOOR ENERGY STORAGE CABINET

✓ OUTDOOR MODULE CABINET



## Overview

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The proposed MIMO-BDPC consists of eight MOSFET switches as shown in Fig. 2. Among these switches, S1, S2, S3, and S4 are the main operating switches for MIMO-BDPC. The pair of MOSFET switches Q1A-Q1B, and Q3A-Q3B is used to select the power sources such as SPV and battery, respectively. The switch.

The main functions of a buck mode of MIMO-BDPC are: 1. Converting a DC input voltage  $V_{Cs}$  to a DC output voltage  $V_{Co}$ , where  $V_{Co} < V_{Cs}$ .

Figure 13 represents the inverter mode of operation of MIMO-BDPC in the positive half cycle. In Mode 1, the switches S1 and S4 are turned ON. In this.

The bi-directional power flow can be achieved using this boost mode of the MIMO converter. Based on the availability of SPV and battery.

SPWM is a method for generating AC output voltage from DC input in inverter. In this mode, the switching technique is controlled using SPWM. A reference copy of the desired sinusoidal waveform, the modulating wave, is.

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