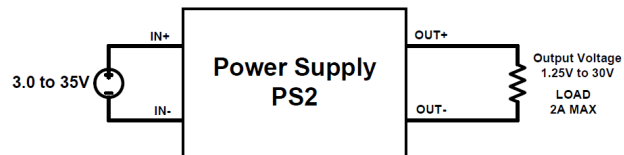


Power Supply PS 2.0 Module – 2A Buck-Boost Converter

Typical Application



Typical Hook-up Diagram

Introduction

The Power Supply PS 2.0 is an integrated DC-DC converter featuring a non-isolated buck-boost topology that regulates a DC output voltage both higher and lower than the input voltage. The PS 2.0 provides a maximum 2A of output current and efficiencies as high as 90%. The low-cost and small form factor make this an ideal solution for many projects that require a low voltage, high efficiency regulated power supply solution.

This power supply is especially useful for both solar power and battery powered applications where the output voltage is required to be greater than the input voltage.

Typical Applications:

- Solar power applications
- Battery charging
- Energy harvesting
- Battery powered microcontrollers
- LED and lighting
- General electronics

Electrical Specifications

The following table summarizes the electrical specifications of the power supply:

Specifications	
Input Voltage Range	3.0V to 35.0V
Output Voltage Range	1.25V to 30.0V
Max. Output Current	2.0A
Efficiency	90%
Output Ripple	< 50mV
Switching Freq	50 kHz