

IP7700 广阔

产品名称	IP7700 广阔
公司名称	深圳市联盈首锐科技有限公司
价格	.01/PCS
规格参数	品牌:广阔 型号:IP7700
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产品详情

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. Description

The iP7700 is a highly integrated solution for

SMPS (Switching Mode Power Supply) applications requiring a dual control loop to perform CV (constant voltage, current limit for Power Supply application) and CC (constant current, voltage limit for LED Driver application).

The iP7700 integrates a voltage reference, two op amps (with OR-ed open-drain outputs), and a low-side current sensing circuit.

The voltage reference, along with one op amp, is the core of the voltage control loop; the current sensing circuit and the other op amp make up the current control loop.

The external components needed to complete the

two control loops are:

A resistor divider that senses the output of the power supply (adapter, battery charger) and fixes the voltage regulation set point at the specified value;

A sense resistor that feeds the current sensing circuit with a voltage proportional to the dc output current; this resistor

determines the current regulation set point and must be adequately rated in terms of power dissipation;

Frequency compensation components (RC networks) for both loops.

The iP7700, housed in one of the smallest package is ideal for space-shrunk applications such as adapters and chargers.

2.

Features

Secondary-side constant voltage and constant current control

Wide operation voltage 2.5-40 V

Very low quiescent consumption

High-accuracy internal reference

Low external component count

SOT23-6L micro package

3.

Applications

Battery chargers

AC / DC adapters

LED lighting