

# Single Inductor, 3A Battery Charger with 2.4A USB OTG, 0.1us True OVP and Adjustable Fuel Gauge All-in-One Solution

## DESCRIPTION

ETA6886 is a switching Li-Ion battery charger capable of delivering up to 3A of charging current to the battery and also capable of delivering up to 2.4A in boost OTG operation. It employs a charge pump to achieve a very fast input OVP, and also includes an externally programmable fuel gauge system for power indication. For charging, it uses a proprietary control scheme that eliminates the current sense resistor for constant current control, thereby improving efficiency and reducing costs. It can also output a 5V voltage in the reversed direction by boosting from the battery. Therefore, it only needs a single inductor to provide power bi-directionally. Together with the build-in Micro-controller functions, such as push-button, auto load detection, and fuel gauging features, ETA6886 is truly an ideal all-in-one solution for battery charging and discharge applications, such as power banks, smart phones, and tablets with only one USB port that can be used for both charging battery and USB OTG function.

ETA6886 is in QFN4x4-28 package.

## FEATURES

- ◆ Bi-Directional Power conversion with Single Inductor
- ◆ Input OVP with 0.1us reaction time
- ◆ Input standoff voltage up to 20V
- ◆ Switching Charger
- ◆ 5V Synchronous Boost
- ◆ Up to 95% Efficiency
- ◆ Up to 3A Max charging current and 2.4A discharging
- ◆ No External Sense resistor
- ◆ NTC thermistor input

## APPLICATIONS

- ◆ Power Bank
- ◆ Smart Phone / Tablet, MID

## ORDERING INFORMATION

PART	PACKAGE	TOP MARK
ETA6886Q43	QFN4x4-28	ETA6886 YWW2L

## TYPICAL APPLICATION

