

2.5A, 3MHz Switching Charger with Dynamic Power Path Management

DESCRIPTION

ETAGODS is a switching Li-lon battery charger with dynamic power-path control and input current limiting. When a battery is connected, depending on the battery voltage, the DC-DC switching regulator either pre-conditions, fast-charges the battery or just regulates a system voltage (V_{SYS}) to a preset voltage. It does not require an external sense resistor for current sensing. The charging current is determined by programming ISETI or ISET2 pin, depending on the state of the USB_DET. If USB_DET is low, indicating an valid AC adapter input is present, the charge current is set by ISETI; otherwise, it is set by ISET2. When the battery voltage reaches the termination voltage i.e. 4.35V, the charging path disconnects SYS to BATT. The ETAGOD5 also includes a dynamic power path when the SYS load current exceeds current limit of the DCDC regulator internally set, the SYS voltage falls below V_{BATT} , ETAGOD5 turns on the power-path to supplement the system load through the battery.

FEATURES

- Switching Charger with Power Path Management
- Up to 95% DC-DC Efficiency
- ♦ 50mΩ Power Path MOSFET
- Up to 2.5A Max charging current
- Instant on with a dead Battery or no Battery
- No battery detection
- No External Sense resistor
- Programmable USB and AC IN Charging Current

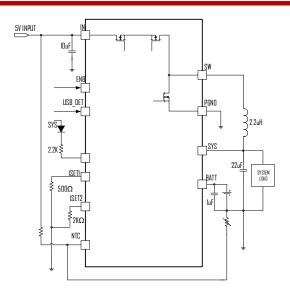
APPLICATIONS

- Tablet, MID
- Smart Phone
- Power Bank

ORDERING INFORMATION

PART	PACKAGE PIN	TOP MARK
ETA6005Q3Q	QFN3X3-16	ETA6005 - Product Number
		YWWPL - Date Code

TYPICAL APPLICATION



2A Switching Charger with Dynamic Power Path