

2.5A, 3MHz Switching Charger with Dynamic Power Path in 8-pin ESOP

DESCRIPTION

ETAGOO2 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

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 Charging Current

for current sensing. The fast-charging current is determined by programming ISET pin. When the battery voltage reaches the termination voltage i.e. 4.2V, the charging path disconnects SYS to BATT. The ETA6002 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} , ETA6002 turns on the power-path to supplement the system load through the battery.

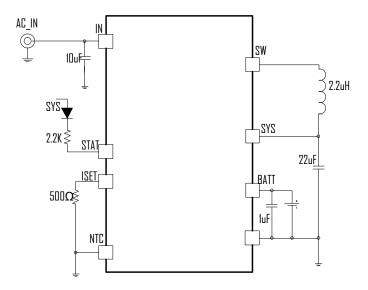
APPLICATIONS

- Tablet, MID
- Smart Phone
- Power Bank

ORDERING INFORMATION

PART	PACKAGE PIN	TOP MARK
ETAGOO2E8A	ESOP-8	ETA6002
		<u>YWWPL</u>

TYPICAL APPLICATION



2A Switching Charger with Minimum Component Count