

Green-Mode PWM Controller with Integrated Protections

Features

- High-voltage (500V) startup circuit
- Current mode PWM
- Very low startup current (<20uA)
- Under-voltage lockout (UVLO)
- Non-audible-noise green-mode control
- Programmable switching frequency
- Cycle-by-cycle peak current limiting
- Internal leading-edge blanking
- Internal slope compensation
- Internal 4ms soft start (Fs = 65KHz)
- VCC over-voltage clamp
- Gate output voltage clamp
- Soft driving for reducing EMI
- Over-voltage protection (OVP) on Vcc pin
- Over-load protection (OLP)
- Over-current protection (OCP) on CS pin
- 500mA driving capability

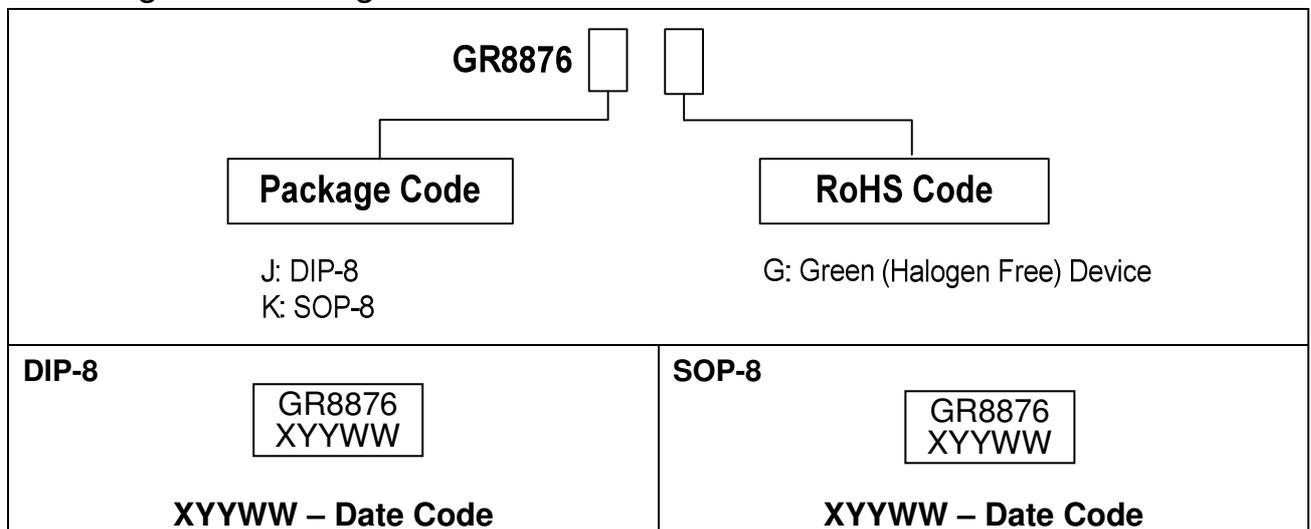
Applications

- Open-frame SMPS
- Switching AC/DC adapter and battery charger

Description

The GR8876 is a highly-integrated, low startup current, current mode PWM controller with green-mode function and high-voltage start up circuit. A high-voltage current source supplies the start up current and the traditional start up resistance can be saved in order to limit the power cost. The controller also includes the leading-edge blanking of the current sensing, internal slope compensation and cycle-by-cycle peak current limiting. It is also integrated soft driving for reducing EMI, gate output voltage clamp function for protecting power MOSFET. GR8876 provides several protections such as OLP, OVP, and OCP for fault conditions. The GR8876 improves the performance and reduces the cost of power supplies. It is available in both 8-pin SOP and 8-pin DIP package.

Ordering and Marking Information



Greenergy OPTO Inc. reserves the right to make changes to improve reliability or manufacture ability without notice, and advise customers to obtain the latest version of relevant information to verify before placing orders.