

## Single Stage, High PFC, AC-DC LED Driver ME8316

### General Description

The ME8316 is a single-stage, primary side control AC-DC LED driver with high power factor. The LED current can be regulated accurately through sensing the primary side information with few external components without the need of an opto-coupler.

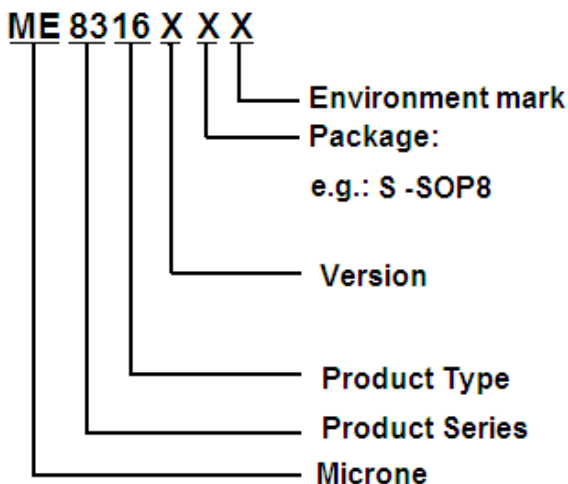
The ME8316 integrates power factor correction function and works in DCM and constant OFF time mode. A small harmonic current emission (THD) is achieved.

The ME8316 is also implemented with various protections, such as over-current protection (OCP), over-voltage protection (OVP), short-circuit protection (SCP) and over-temperature protection (OTP), etc, to ensure a reliable system.

### Features

- Wide input voltage range from AC85V to AC265V
- Highly accurate constant LED current ( $\pm 5\%$ )
- Supply Voltage Range: 7.5V~18V
- Up to 50W power drivability.
- Primary-side current sensing and regulation without an opto-coupler
- Leading edge blanking (LEB) technique
- Cycle-by-cycle current limiting
- Under-voltage lockout (UVLO) protection
- VDD and output over voltage protection
- Adjustable constant current and output power setting
- Power on soft-start
- Available in SOP8 package

### Selection Guide



### Applications

- AC/DC LED driver applications
- General purpose constant current source
- Signal and decorative LED lighting
- E14/E27/PAR30/PAR38/GU10 LED lamp