



# JW1758AC/JW1758BC/JW1758BH JW1758CC/ JW1758DC

## Offline Step-down LED Driver With PFC and High Voltage Current Source

*Parameters Subject to Change Without Notice*

### DESCRIPTION

The JW<sup>®</sup>1758AC / JW1758BC / JW1758BH / JW1758CC / JW1758DC (JW1758XX series) is a constant current LED driver with high current accuracy which applies to single stage step-down power factor corrected LED drivers. High voltage power MOS is integrated, which can significantly simplify the design of LED lighting system.

JW1758XX series integrates high voltage power source and can be supplied by line voltage directly, and auxiliary winding is not needed.

High accuracy of output current is achieved by sampling the output current directly. Critical conduction mode operation reduces the switching losses and largely increases the efficiency.

JW1758XX series has multi-protection functions which largely enhance the safety and reliability of the system, including VCC UVLO, ISP over voltage protection, LED open protection and over-temperature protection.

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### FEATURES

- No auxiliary winding
- Supplied from line voltage directly
- high voltage power MOSFET integrated
- High current accuracy of line and load regulation
- High power factor
- Critical conduction mode
- High efficiency over wide operating range
- LED open protection
- ISP over voltage protection
- Internal over-temperature protection
- SOP7 and DIP7 package

### APPLICATIONS

- Non-isolation Offline LED driver

### TYPICAL APPLICATION

