

Switching Voltage Regulators 100V, 0.6A Synchronous Micropower Step-Down High Efficiency Switching Regulator

|               |   |
|---------------|---|
| Manufacturers | <a href="#">Analog Devices, Inc</a>       |
| Package/Case  | 20-TSSOP (0.173, 4.40mm Width), 16 Leads, |
| Product Type  | Power Management ICs                      |
| RoHS          |   |
| Lifecycle     |   |



Images are for reference only

Please submit RFQ for LT8630EFE#PBF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

## General Description

The LT8630 is a current mode PWM step-down DC/DC converter with internal synchronous switches that provide current for output loads up to 0.6A. The wide input range of 3V to 100V makes the LT8630 suitable for regulating power from a wide variety of sources, including automotive and industrial systems and 36V to 72V telecom supplies. Variable frequency boundary mode switching maximizes efficiency across a wide range of input voltages. Low ripple Burst Mode operation enables high efficiency operation down to very low output currents while keeping the output ripple below 5mV. The soft-start feature controls the ramp rate of the output voltage, eliminating input current surge during start-up, while also providing output tracking. A power good flag signals when the output voltage is within  $\pm 7.5\%$  of the regulated output. Undervoltage lockout can be programmed using the EN/UV pin. Shutdown mode reduces the total quiescent current to  $< 5\mu\text{A}$ . The LT8630 is available in a 20-lead TSSOP package with exposed pad for low thermal resistance and high voltage lead spacing.

## Features

Ultrawide Input Voltage Range: 3V to 100V

Boundary Mode Switching for Highest Efficiency

Output Voltage Range: 0.8V to 60V

Internal Synchronous Switches

Burst Mode® Operation:

16µA IQ at 12VIN to 5VOUT

7µA IQ at 48VIN to 5VOUT

Low Dropout: 99% Maximum Duty Cycle

Peak Current Mode Control

Programmable Undervoltage Lockout

Power Good Flag

Flexible Output Voltage Tracking

Short-Circuit Protection

Low Shutdown Current: 5µA

Tolerates Pin Open/Short Faults

Thermally Enhanced 20-Lead TSSOP with High Voltage Lead Spacing

## Application

Automotive Supplies

Telecom Supplies

Distributed Supply Regulation

## Related Products



### [LT3763EFE](#)

Analog Devices, Inc  
TSSOP28



### [LTC4417IUF](#)

Analog Devices, Inc  
QFN-24



### [LTC1966CMS8#PBF](#)

Analog Devices, Inc  
MSOP-8P



### [LT1038CK](#)

Analog Devices, Inc  
TO-3



### [LTC3440EMS](#)

Analog Devices, Inc  
MSOP10



### [LTC2990IMS#PBF](#)

Analog Devices, Inc  
10MSOP



[LTM8045EY#PBF](#)

Analog Devices, Inc  
BGA40



[LT4295IUFD#PBF](#)

Analog Devices, Inc  
28-WFQFN