LT8490EUKJ#PBF

Data Sheet

High Voltage, High Current Buck-Boost Battery Charge Controller with Maximum Power Point Tracking (MPPT)

Manufacturers	Analog Devices, Inc
Package/Case	64(58)-Lead Plastic QFN (7mm × 11mm)
Product Type	Power Management ICs
RoHS	
Lifecycle	

Images are for reference only

Please submit RFQ for LT8490EUKJ#PBF or Email to us: sales@ovaga.com We will contact you in 12 hours. RFQ

General Description

The LT8490 is a buck-boost switching regulator battery charger that implements a constant-current constantvoltage (CCCV) charging profile used for most battery types, including sealed lead-acid (SLA), flooded, gel and lithium-ion. The device operates from input voltages above, below or equal to the output voltage and can be powered by a solar panel or a DC power supply. On-chip logic provides automatic maximum power point tracking (MPPT) for solar powered applications. The LT8490 can perform automatic temperature compensation by sensing an external thermistor thermally coupled to the battery. STATUS and FAULT pins containing charger information can be used to drive LED indicator lamps. The device is available in a low profile (0.75mm) 7mm × 11mm 64-lead QFN package.

Features

VIN Range: 6V to 80V

VBAT Range: 1.3V to 80V

Single Inductor Allows VIN Above, Below, or Equal to VBAT

Automatic MPPT for Solar Powered Charging

Automatic Temperature Compensation

No Software or Firmware Development Required

Operation from Solar Panel or DC Supply

Input and Output Current Monitor Pins

Four Integrated Feedback Loops

Synchronizable Fixed Frequency: 100kHz to 400kHz

64-Lead (7mm × 11mm × 0.75mm) QFN Package

Application

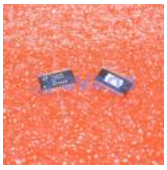
Solar Powered Battery Chargers

Multiple Types of Lead-Acid Battery Charging

Li-Ion Battery Charger

Battery Equipped Industrial or Portable Military Equipment

Related Products



LT3763EFE

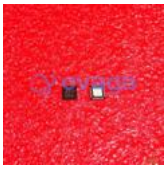
Analog Devices, Inc

TSSOP28

LT1038CK

Analog Devices, Inc

TO-3



LTC4417IUF

Analog Devices, Inc

QFN-24

LTC3440EMS

Analog Devices, Inc

MSOP10

LTC1966CMS8#PBF

Analog Devices, Inc

MSOP-8P

LTC2990IMS#PBF

Analog Devices, Inc

10MSOP

LTM8045EY#PBF

Analog Devices, Inc

BGA40

LT4295IUFD#PBF

Analog Devices, Inc

28-WFQFN