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BQ24650 Evaluation Module Synchronous, Switch-Mode, Battery Charge Controller for Solar Power

(ACTIVE) BQ24650EVM-639

Description & Features

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Key Document

• bq24650EVM Synchronous, Switch-Mode, Battery Charge Controller for Solar Power (Rev. A) (PDF 665 KB)
16 Oct 2010 1,015 views [Read Abstract](#)

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Description

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The BQ24650EVM Evaluation Module assists users in evaluating the bq24650 synchronous battery charger. The bq24650 is a highly integrated switch-mode battery charge controller. It provides input voltage regulation, which reduces charge current when input voltage falls below a programmed level. When the input is powered by a solar panel, the input regulation loop maintains the panel at maximum power output. The BQ24650EVM is also called the HPA639 A. The manual includes the bq24650EVM bill of materials, board layout, and schematic. The user's guide SLUU444 describes the features and operation of the bq24650EVM.



Evaluation Module Synchronous, Switch-Mode, Battery Charge Controller for Solar Power

Features

- Synchronous switch-mode battery charge controller for solar power
- Resistor-programmable up to 26-V battery voltage
- Input operating range: 5V to 28V
- LED indication for charge status
- Test points for key signals available for testing purposes; easy probe hook-up.
- Jumpers available; easy-to-change setting

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| Part Number | Buy from Texas Instruments or Third Party | Buy from Authorized Distributor | Status | Lead-Free | RoHS | REACH | WEEE | HI-V (>50VRMS/75 VDC) | CE | CE-EMC | CE-RTTE/LVD | FCC | Batteries | Enclosure | Ext Power Supply |
|--|--|--|--------|-----------|------|-------|------|-----------------------|----|--------|-------------|-----|-----------|-----------|------------------|
| BQ24650EVM-639: BQ24650 Evaluation Module Synchronous, Switch-Mode, Battery Charge Controller for Solar Power | \$99.00(USD) In Stock Typically Ships in 1 to 3 Business Days Buy from TI | Pricing may vary. Buy from distributor | ACTIVE | Yes | Yes | Yes | NA | NA | NA | NA | NA | NA | No | No | No |

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TI's [Standard Terms and Conditions for Evaluation Modules](#) apply.

Technical Documents

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|  Synchronous Switch-Mode Battery Charge Controller for Solar Power | PDF | 2867 | 21 Jul 2010 | | |

User Guides (1)


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Solution Guides (1)

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|  Smart Grid Solutions Guide (Rev. O) | | PDF | 2006 | 18 Dec 2014 | 9,524 |

Related Products

Software (1)

 [BQ24650EVM-639 Gerber Files, HPA639A](#)
(ZIP, 303 KB) 60 views, 14 Jul 2011

TI Devices (1)


| Part Number | Name | Product Family |
|-------------------------|--|-----------------------------|
| BQ24650 | High Efficiency Synchronous Switch-Mode Charger Controller – Solar Battery Charger | Battery Management Products |

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