

SolarTech Power Solutions

6-series lithium battery pack protection IC



Overview

The bq76PL536A-Q1 device is a stackable battery monitor and protector for three-to-six lithium-ion cells in series. What is a lithium-ion battery protection IC?

For general use | For automotive A lithium-ion battery protection IC is an IC that monitors overcharge, overdischarge, and overcurrent to protect lithium-ion batteries, ensuring safe operation. ABLIC has been developing and producing lithium-ion battery protection ICs since 1993, and has a track record of over 30 years in the industry.

Who makes lithium-ion battery protection ICs?

ABLIC has been developing and producing lithium-ion battery protection ICs since 1993, and has a track record of over 30 years in the industry. We offer a diverse lineup of approximately 2,100 battery protection ICs covering a wide range of cell counts, applications and protection functions.

What is a battery protection IC?

1. ABLIC's Battery Protection ICs Battery protection ICs protect batteries from hazards such as overcharging, overdischarging and overcurrent. ABLIC has been developing and producing battery protection ICs since 1993, and has a track record of approximately 30 years in the industry.

What is ABLIC battery protection IC?

ABLIC's battery protection ICs for multi-cell pack: Our vast product lineup provides strong support for developing safety-critical battery packs with secondary protection and other features to suit customer needs such as smaller, lighter, and thinner applications and the cascade connection of a large number of battery cells in series.

How to detect a rechargeable lithium ion or lithium-polymer battery?

The overcharge, overdischarge, discharging overcurrent, charging

overcurrent, and short protection of the rechargeable Lithium-ion or Lithium-polymer battery can be detected. Each of these IC composed of four voltage detectors, short detection circuit, reference voltage sources, oscillator, counter circuit and logical circuits.

What is Infineon battery protection?

For that, Infineon offers a wide range of battery protection solutions that, under stressful conditions, increase lifetime and efficiency of lithium batteries. The battery protection circuit disconnects the battery from the load when a critical condition is observed, such as short circuit, undercharge, overcharge or overheating.

6-series lithium battery pack protection IC



Protection for Lithium-Ion Batteries , Lithium-Ion ...

Aug 5, 2025 · Lithium-Ion Battery protection IC using high voltage CMOS process for overcharge, overdischarge and overcurrent protection of the rechargeable ...

Analog , Embedded processing , Semiconductor company

The BQ2970 battery cell protection device ensures accurate monitoring and protection against overcurrent and overcharge conditions during high discharge or charge operations.



1-Cell Lithium-ion/Lithium Polymer Battery Packs ...

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Battery Protection IC for 2-serial-cell Pack S-82C2A Series

May 16, 2025 · This IC is a protection IC for lithium-ion / lithium polymer rechargeable batteries, which includes high-accuracy voltage detection circuits and delay circuits. It is suitable for ...



Lithium Battery Pack Protection and Control

Safety and ageing concerns in Lithium battery applications highlight the critical need for advanced protection and control solutions in the market. Adoption of electric vehicles, both in the ...

3 to 6 Series Cell Lithium-Ion Battery Monitor and ...

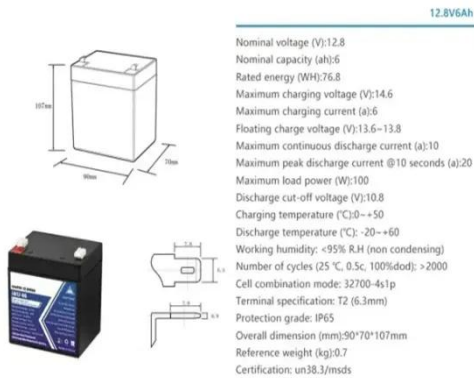
Jun 1, 2025 · The bq76PL536 is a stackable three to six series cell lithium-ion battery pack protector and analog front end (AFE) that incorporates a precision analog-to-digital converter ...



Battery Protection IC for 3-serial to 5-serial Cell

Pack S-8245A/C Series

Jul 30, 2025 · The S-8245A/C Series is a protection IC for 3-serial to 5-serial cell lithium-ion rechargeable batteries, which includes high-accuracy voltage detection circuits and delay ...



Multi-Cell Battery Sensing and Protection IC With Integrated ...

Mar 25, 2025 · It features an 18-channel multiplexer for selectively detecting high-voltage, series-connected battery packs and achieving on-chip cell balancing through sequential control. ...

FLEXIBLE SETTING OF MULTIPLE WORKING MODES



BQ29330 data sheet, product information and support , TI

The bq29330 is a 2-series, 3-series, and 4-series cell lithium-ion battery pack full-protection analog front end (AFE) IC that incorporates a 2.5-V, 16-mA and 3.3-V, 25-mA low dropout ...

Battery protection selection guide

May 24, 2025 · For that, Infineon offers a wide range of battery protection solutions that, under stressful conditions, increase lifetime and efficiency of lithium batteries. The battery protection ...



BQ29311 data sheet, product information and support , TI

The bq29311 is a three- or four-cell lithium-ion battery pack protection analog front end (AFE) IC that incorporates a 3.3-V 25-mA low-dropout regulator (LDO) and an I²C compatible interface ...

S-8209B Series BATTERY PROTECTION IC

Jul 31, 2019 · The S-8209B Series is a protection IC for lithium-ion / lithium polymer rechargeable batteries and includes a high-accuracy voltage detection circuit and a delay circuit. The S ...



Battery Protection IC for

2-Serial-Cell Pack S-82A2A/B/C Series



May 20, 2025 · This IC is a protection IC for lithium-ion / lithium polymer rechargeable batteries, which includes high-accuracy voltage detection circuits and delay circuits. It is suitable for ...

S-8254A Series BATTERY PROTECTION IC

Sep 6, 2024 · The S-8254A Series is a protection IC for 3-serial- or 4-serial-cell lithium-ion / lithium polymer rechargeable batteries and includes a high-accuracy voltage detector and ...



- ☒ 100KWH/215KWH
- ☒ LIQUID/AIR COOLING
- ☒ IP54/IP55
- ☒ BATTERY 6000 CYCLES



??? 3 ?6 ?????????????????? IC EV ?

Jul 13, 2017 · DESCRIPTION
DESCRIPTION?? The The bq76PL536A-Q1 bq76PL536A-Q1 is is a stackable a stackable three three to to six six series series bq76PL536A-Q1 cell cell ...

Battery Protection ICs for Multi-cell Pack

Jul 30, 2025 · ABLIC's battery protection

ICs for multi-cell pack: Our vast product lineup provides strong support for developing safety-critical battery packs with ...



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