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High Voltage

Applications

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Applications Lead

Acid Battery

Balancer Battery

Management

System LTC Analog

Devices Inc.

LTC6813

18-Channel Multi-

Cell Battery

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Battery | New

Product Brief

Multi-chemistry

Battery Charger

Provides Battery

Health and Power

System Monitoring

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High Voltage

Applications-Linear

Technology Italy Srl

(27629)

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Management

ISL94203/02

Battery Pack

Monitor Protects

and Extends Life of

Multi-Cell Li-ion

Batteries Battery

Management

System: The

Complete Signal

Chain

LTC6813HLWE-1#3

ZZPBF by Analog

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Devices' Power by
Linear Product
Video | Arrow.com

LTC6811IG-2#PBF
by Analog Devices'
Power by Linear
Product Video |
Arrow.com ~~Victron
Battery Monitor
BMV 712 Smart
Review And Test
\$200 Victron Solar
Battery Monitor?
Try this \$30~~

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Chinese one
instead! Great for
Off-grid Solar Build
~~a 2S Li-ion Battery
Pack with
Protection~~ How to
make 7.4 - 8.4V DC
Battery Pack 2
18650 circuit
protection Diagram
First Look: Wireless
RV Battery Monitor
from Ming He
(Drok) 120V 300A

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Li-ion Balancing
and Protection
Board BMS
SIMULATION (How

it Works) ~~BMS~~

~~Battery Module~~

~~Can you Series
connect them?~~

ISDT Battery GO

BG-8S Battery

Monitor and

Balancer Low Cost

Battery Monitor for

your RV How we

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Installed a Victron

Battery Monitor

(BMV-712) in our

Tab 400 Combining

ADI's BMS Products

for Battery Cell

\u0026 Pack

Monitoring ~~Cell and~~

~~Stack Monitoring~~

~~for High Voltage~~

~~Battery~~

~~Management~~

12-Cell Battery

Pack Monitor

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Evaluation Board

Overview

Monitoring a High
Voltage Battery

Stack, Made Simple

R5601 Analog Front

End IC for Multi-Cell

Li-Ion Batteries

Multi-Cell Li-Ion

Battery

Management with

MSP430 Battery

Pack Cell Voltage

Measurement in

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~~EVs~~ How to Use the

MAX745 as a

Maximum Power

Point Tracker Solar

Charger Multicell

Battery Stack

Monitor Linear

6-Channel Battery

Stack Monitors:

Multicell Battery

Monitor: \$5.92 (LTC

6810IG-2#3ZZPBF)

3: LTC6810-1: 37.5:

Multi-Chemistry:

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Cell Voltage Range:

0V to 5V; 1Mbps

isoSPI, see

LTC6820

(Galvanically

Isolated) Daisy

chained ICs, single

connection to host

processor:

6-Channel Battery

Stack Monitors:

Multicell Battery

Monitor: \$5.92 (LTC

6810IG-1#3ZZPBF)

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4: LTC6806: 150:
Fuel Cell

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Technology

Multicell Battery

Stack Monitor |

Analog Devices

The

LTC6801HG#PBF is

a multicell Battery

Monitoring IC

incorporating a

12-bit ADC, a

precision voltage

reference, sampled

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comparator and a high voltage input multiplexer. The LTC6801 can

monitor as many as 12 series connected battery cells for overvoltage, undervoltage and over temperature conditions, indicating whether the cells are within

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specified parameters. The LTC6801 generates a clock ...

LTC6801HG#PBF
Linear Technology,
Battery Li-Ion Stack

...

Multicell Battery
Stack Monitor The
LTC ®6803 is a
2nd generation,
complete battery

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Monitoring IC
that includes a
12-bit ADC, a
precision voltage
reference, a high
voltage input
multiplexer and a
serial interface.

Each LTC6803 can
measure up to 12
series connected
battery cells or
supercapacitors.

Many LTC6803

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Battery Stack

LTC6803-2/LTC680

3-4 - Multicell

Battery Stack

Monitor

Linear Technology has announced the LTC6802, a highly integrated multicell battery monitoring IC capable of measuring up to 12 individual battery cells. The device's

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proprietary design allows multiple LTC6802s to be stacked in series without optocouplers or isolators, for precision voltage monitoring of every cell in long strings of series-connected batteries.

High Voltage

Page 20/46

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Battery Stack

Monitor from Linear
Technology

Each LTC6801 can

operate with a

battery stack

voltage up to 60V

and multiple

LTC6801 devices

can be stacked to

monitor each

individual cell in a

long battery string.

When multiple

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Battery Stack
Monitor Linear
Technology

Devices are stacked, the status signal of each LTC6801 can be daisy-chained, without opto-couplers or isolators, providing a single status output for the entire battery string.

LTC6801 -

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Battery Stack
Independent
Multicell Battery
Monitor Linear
Stack Fault Monitor
Technology
Multi-Chemistry:
Cell Voltage Range:
0V to 5V. 1Mbps
isoSPI, see
LTC6820
(Galvanically
Isolated)
Individually
addressed (4-bit)
ICs, parallel
connection to host

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processor. Stack

6-Channel Battery
Stack Monitors.

Multicell Battery
Monitor. \$5.92 (LTC
6810IG-2#3ZZPBF)
44-Lead SSOP.

112.5. Multi-
Chemistry: Cell
Voltage Range: 0V
to 5V.

Selection Table for
Multicell Battery

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Battery Stack

Monitor Linear
Technology
Product Details.

The LTC6802-1 is a complete battery monitoring IC that includes a 12-bit ADC, a precision voltage reference, a high voltage input multiplexer and a serial interface. Each LTC6802-1 can measure up to 12

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Battery Stack
Monitor Linear
Technology

series connected battery cells with an input common mode voltage up to 60V. In addition, multiple LTC6802-1 devices can be placed in series to monitor the voltage of each cell in a long battery string.

LTC6802-1

Datasheet and

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Battery Stack

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Product Info |

Analog Devices

The LTC6804 is a 3rd generation multicell battery stack monitor that measures up to 12 series connected battery cells with a total measurement error of less than 1.2mV. The cell measurement range of 0V to 5V

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makes the LTC6804 suitable for most battery chemistries. All 12 cell voltages can be captured in 290 μ s, and lower data acquisition rates can b

LTC6804-1
Datasheet and
Product Info |
Analog Devices

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The LTC6811 is a multicell battery stack monitor that measures up to 12 series connected battery cells with a total measurement error of less than 1.2mV. The cell measurement range of 0V to 5V makes the LTC6811 suitable for most battery

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Battery Stack
Monitor Linear
Technology

chemistries. All 12 cells can be measured in 290 μ s, and lower data acquisition rates can be selected for high noi

LTC6811-1

Datasheet and

Product Info |

Analog Devices

Power by Linear /

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Battery Stack
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Technology

Analog Devices' LTC6813 is a multi-cell battery stack monitor. This device can measure up to 18 series connected battery cells with a total measurement error of less than 2.2 mV. The cell measurement range of 0 V to 5 V makes the

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LTC6813 suitable
for most battery
chemistries.

Technology

LTC6813 Multicell
Battery Monitor -
Analog Devices |
DigiKey

The LTC®6802-2 is
a complete battery
monitoring IC that
includes a 12-bit
ADC, a precision
voltage reference,

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a high voltage input multiplexer and a serial interface. Each LTC6802-2 can measure 12 series connected battery cells, with a total input voltage up to 60V. The voltage on all 12 input channels can be measured within 13ms.

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Battery Stack

LTC6802-2 -
Multicell
Addressable

Battery Stack

Monitor

The LTC6813-1 is a multicell battery stack monitor that measures up to 18 series connected battery cells with a total measurement error of less than

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2.2mV. The cell measurement range of 0V to 5V makes the LTC6813-1 suitable for most battery chemistries.

Industrial - Multicell
Battery Stack

Monitor |
Excelpoint ...

TYPICAL
APPLICATION

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Battery Stack

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Technology

FEATURES
DESCRIPTION
Multicell Battery
Stack Monitor The
LTC®6803 is a 2nd
generation,
complete battery
moni - toring IC
that includes a
12-bit ADC, a
precision voltage
reference, a high
voltage input
multiplexer and a

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serial interface.

Each LTC6803 can measure up to 12 series connected battery cells or supercapacitors.

LTC6803-2/LTC680

3-4 Multicell

Battery Stack

Monitor ...

LTC6803-4_15 :

Multicell Battery

Stack Monitor

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Linear Technology

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Battery and No Stack

register.

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LTC6803-4

Datasheet (PDF) -

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Developed by

Linear's design

partner Lion Smart,

the concept car

puts a battery

stack monitor on a

SmartMesh

wireless mesh

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network in a BMW

i3. Linear

Technology said

the wireless BMS

will reduce wiring

complexity for

large multicell

battery stacks for

electric and

hybrid/electric

vehicles.

Electronica: BMW

gets wireless

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Battery Stack
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battery monitors from Linear. The LTC6804 is a multicell battery stack monitor that measures up to 12 series connected battery cells. As an option, it can send data to an LTC6820 for transfer to a microcontroller. The LTC6804 monitors each

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individual cell in the stack and communicates this information through a proprietary serial bus to a central processing unit.

Active Balancing
ICs Optimize
Battery Stack
Performance ...
Multicell Battery

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Battery Stack n

Bidirectional

Monitor Linear

Technology

Minimizes
Balancing Time and

Power Dissipation n

Up to 92% Charge

Transfer Efficiency

... n General

Purpose Multicell

Battery Stacks L,

LT, LTC, LTM,

Linear Technology

and the Linear logo

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are registered
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isoSPI
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LTC3300-1 - High
Efficiency

Bidirectional
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The Linduino is an
Arduino compatible

1. Download and
install the Arduino
IDE to the PC.

platform with

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example code that will demonstrate how to Detailed instructions can be found under the control multicell battery stack monitor ICs and the stack quick start tab.

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