DDH0015 *(preliminary)*

HV-AUX

Energy storage systems are becoming increasingly important with growing electrification and the associated increase in demand for electrical energy. Nevertheless, it is often not possible to achieve true self-sufficiency at present, as modern energy storage systems often require a mains connection to supply the internal controls/sensors etc.
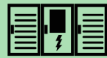
The DDH0015 from Querom enables the control and regulation electronics of a battery storage system to be connected directly to the storage cells without an additional mains connection.

AREAS OF APPLICATION

DC-Grid
Supply LV-loads

Energy Storage
Auxiliary supply with monitoring

Construction Machinery
Supply 12V/24V/48V electrical systems

Renewable Energy
Supply control systems

Redox-Flow
Auxiliary supply with monitoring

Commercial Vehicle
Supply 12V/24V/48V electrical systems

KEY FACTS

~ 40W output power

I_{out}: 3A (sum of 4 outputs)

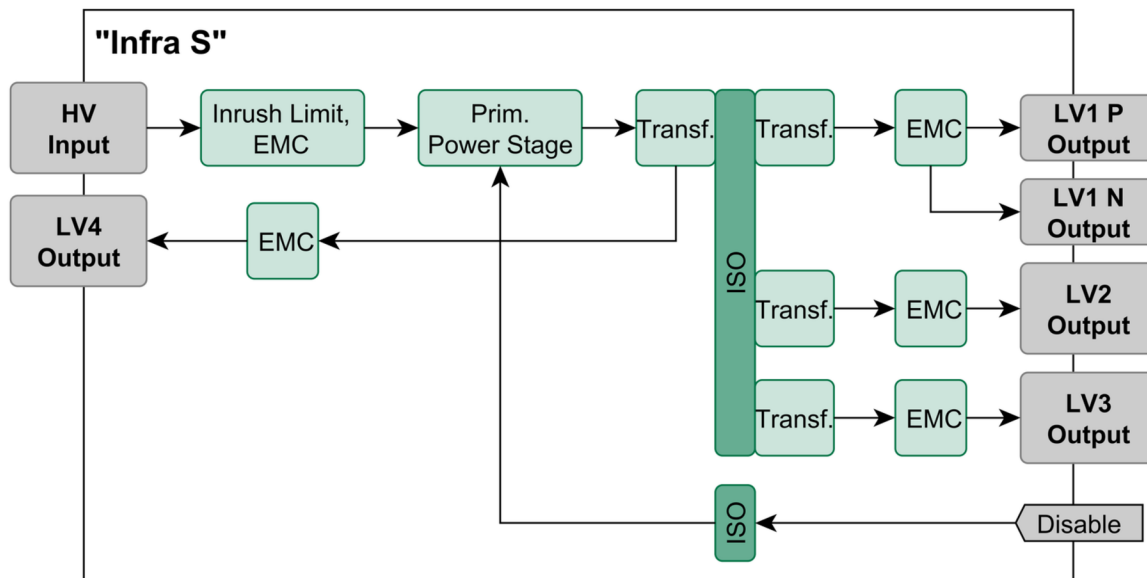**U_{in}: 180 - 1600VDC**

U_{out}: 12V/24VDC, +20/-4VDC

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SYSTEM OVERVIEW

DESCRIPTION

The DDH0015 is a compact PCB module, that enables the supply of internal loads requiring various voltages such as MCU-boards, displays, gate drivers or fans directly from HV-DC-links, battery voltages or PV-string voltages . This functionality opens up completely new possibilities in a wide range of applications. For example, battery storage systems can be realized that do not require an additional 230V mains connection, as the internal controls and sensors can be supplied directly from the energy storage via the DDH0015.

Compared to competitive products on the market, the DDH0015 does not require any additional external circuitry to achieve necessary inrush current protection or compliance to its specified EMC-standards, which, in combination with its design as a PCB module, makes the device very easy to integrate into any application.

INTERFACES

- Multiple isolated outputs, one bipolar output for highside SiC gate drives
- Isolated I/O-Pin (Disable)
- LED signalization / (HV-side / LVx OK)