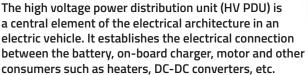
WURTH ELEKTRONIK MORE THAN YOU EXPECT

HV POWER DISTRIBUTION UNITS

High Voltage Solutions





Würth Elektronik ICS is a specialist for developing customized HV PDU's according the customer requirements. Our PDU solutions are PCB based and are produced using press-fit technology.

The combination of Powerelements, printed circuit board as well as thermally and mechanically stable press-fit connections enables optimum integration of HV / high current components. Temperature and current sensors can be easily integrated.

To show you the possibilities we can realize in a customized solution we developed a demonstrator, PDU 600, with typical functions, HV components and housing.



Features and Benefits

- EMC shielded aluminum housing
- Optimised heat management
- Secure connection with HV-Interlock connectors
- 100 % connectorized system: Plug and Play solution
- PCB based solution without any HV cables used within the box
- Safety-relevant mechanisms (HVIL loop) such as a switch for detecting the lid opening
- Current measurement communicated via CAN bus

DEMONSTRATOR

Technical Data of the PDU 600 Demonstrator

Mechanical Data	
Operating temperature	-40 °C up to +60 °C
IP protection class	IP 66
Weight	6.2 kg
Dimensions	280 mm x 290 mm x 110 mm

Electrical Data	
HV high power connector	TE HVP 800 up to 200 A
HV mid power connector	TE HVA 630 up to 40 A/pin
Signal connector	Deutsch HDP24-24-35PN
Specifics	LEM current sensor Temperature sensor
Components	1 x 400 A 600 VDC fuse 2 x 30 A 600 VDC fuses Gigavac contactors

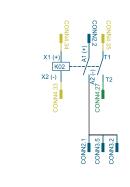


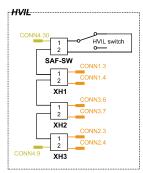
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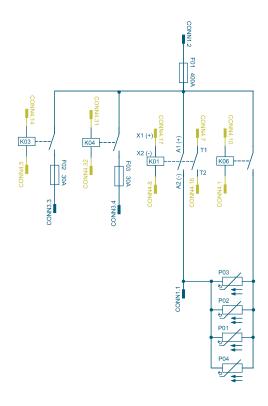
High Voltage

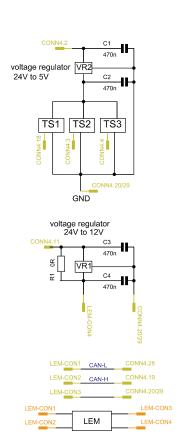
E-Mobility

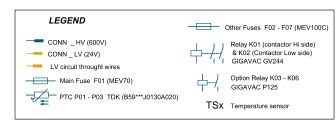
SCHEMATIC













For more information visit us at www.we-online.com/ics or call +49 7940 9810-0.

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