EoL function test for traction batteries Test systems for electromobility



Testing tasks

- · potential equalization measurements
- · simulate crash shutdown
- · HV interlock test
- · discharge / charge pulse
- · test ISO guard
- · charge battery
- · link voltage measurement
- · check state of charge

Function test

- · voltage range up to 1000 V DC
- · current range up to 800 A DC
- · battery charging and discharging

Security tests

- · tests up to 3000 V DC
- · isolation test to over 10 MOhm





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Source/Sink





















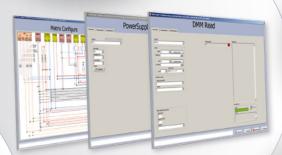


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Plant I	Power for charging		UUT BMS communication	Board network supply	
	· HV charging voltage	300 V DC up to 800 V DC	· CAN, CAN FD and other bus systems	· 12 up to 18 V DC, 40 A DC	
	· HV charging current	up to 800 A DC	· residual bus simulation via CANoe (company Vector)	measurement no	eep current in µA, ominal current up 50 A
	· HV current measurement	1 A DC up to 800 A DC	· alternatively Net2Run (GÖPEL electronic)		
	· HV voltage measurement	up to 1000 V DC			
Plant II	Test ISO guard		Communication with production system	Security test	
	· connection of up to 3 error resistors		· network (TCP/IP Profinet), OPC UA	· test voltage	100 - 4000 V DC
	· resistance range 10 kOhm to 500 kOhm		· serial interface	· tripping current	1 μA - 10 mA
			· I/O interface	· isolation measurement	up to 20 GOhm

Made in Germany



• GÖPEL electronic GmbH

Goeschwitzer Str. 58/60 07745 Jena · Germany

+49 3641 · 6896 0 Phone +49 3641 · 68 96 944 Fax





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