

HVshunt2

High precision shunt for high-voltage and current measurement

- For electrical and hybrid vehicle applications
- High-voltage input up to 850 VDC
- Current measurement up to 900 A DC via current transformer
- Customer-specific plugs for connection to high-voltage network
- Built-in Iso Voltage Divider
- Direct connection to SENS modules



Device	
Voltage supply	9 ... 36 VDC
Power consumption, typical	15 W
Working temperature range	-20 ... 70 °C (-4 ... 158 °F)
Storage temperature range	-30 ... 70 °C (-22 ... 158 °F)
IP-Code	IP 54 (ISO 20653 - 2013), plugs connected
Relative humidity	20 ... 80 %
Dimensions	L222 mm x B146 mm x H105 mm (8.74 in x 5.75 in x 4.13 in)
Weight	4100 g (9.04 lb)
Input sockets	Customer-specific design
Housing material	Diecast aluminium enclosure
Channel LED	No
High-voltage input	
Measurement range volt	±850 VDC
Output signal voltage	±1.7 VDC
Current measurement range	±900 A
Bandwidth	f(-3db) = 300kHz
Amplitude error for current measurement (10 Hz ... 2 kHz)	0.01%
Amplitude error for current measurement (2 kHz ... 10 kHz)	0.2%
Amplitude error for current measurement (10 kHz ... 100 kHz)	2.5%
Output signal current	±1.5 VDC
Tolerance current transformer at ambient temperature 25 °C	±0.2 %
Linearity current transformer (current measurement)	±0.004 %
Tolerance Iso Voltage Divider at ambient temperature 25 °C	±0.2 %
Tolerance Iso Voltage Divider at ambient temperature -20 ... 70 °C	±0.5 %
Accessories	

System cable	600-902.pdf
System cable	620-640.pdf