



## IVT-S

### COMPACT CURRENT SENSING

ISAscale® shunt-based current & voltage sensor designed for DC applications



### INTRODUCTION

The IVT-S is a compact high precision current measurement device. It is based on a modular design and provides flexibility for fast system integration in the automotive and industrial area. The continuous current measurement has a range up to  $\pm 2,500$  A. Voltage measurement is supported with up to 3 channels. The IVT-S is the benchmark in precise current and voltage measurement since 2017.

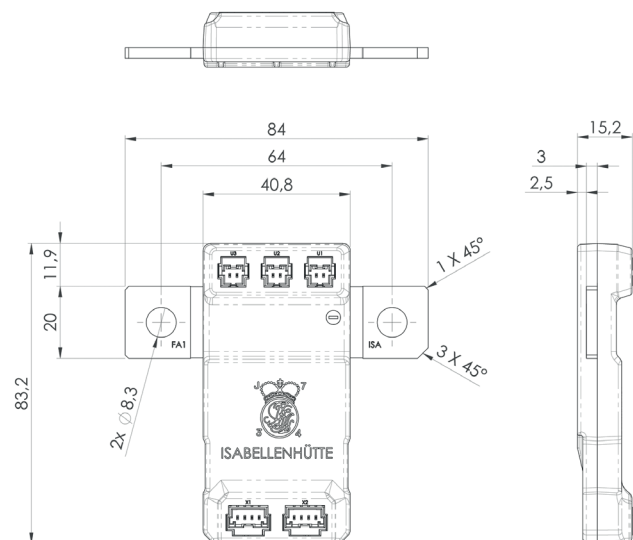
### APPLICATIONS

- Hybrid and full electric devices
- UPS systems
- Electrical energy storage systems
- Fuel cells
- Transportation systems
- Traction battery system

### FEATURES

- 16-bit analog-digital converter
- CANbus 2.0 & DBC
- Output rate: 1 kHz
- Up to three voltage measurement channels
- 12 V and 24 V application
- Basis isolation DC voltage 1,000 V (ISO 60664)

### DIMENSIONS [mm]



## TECHNICAL DATA CURRENT

<i>Description</i>	<i>Value</i>					<i>Unit</i>
Measurement range	±100	±300	±500	±1,000	±2,500	A
Resolution	3	10	27	47	186	mA
Initial accuracy	±0.1					% of reading
Total accuracy	±0.4					% of reading
Linearity	0.01					% of reading
Offset	≤8	≤25	≤75	≤125	≤500	mA
Noise	≤5	≤15	≤40	≤70	≤280	mA (RMS)

## TECHNICAL DATA VOLTAGE

<i>Description</i>	<i>Value</i>		<i>Unit</i>
Measurement range	nominal: ±1,000	extended: ±1,200	V
Resolution	30		mV
Initial accuracy	±0.1		% of reading
Total accuracy	±0.5		% of reading
Linearity	0.01		% of reading
Offset	≤100		mV
Noise	≤60		mV (RMS)