

HCS1000 DATASHEET



1,000A Hall Effect DC Current Sensor

Based on the Hall Effect principle, this sensor is designed for measuring DC currents and is designated for a range of SATEC devices featuring DC-metering.

HIGHLIGHTS

- ▶ High accuracy 0.2%
- ▶ Compact
- ▶ Wide current measuring range

APPLICATIONS

- ▶ Photovoltaic applications
- ▶ General purpose inverters
- ▶ AC/DC variable speed drives
- ▶ Battery / energy storage
- ▶ Uninterruptible Power Supply (UPS)

TECHNICAL SPECIFICATIONS

GENERAL CHARACTERISTICS

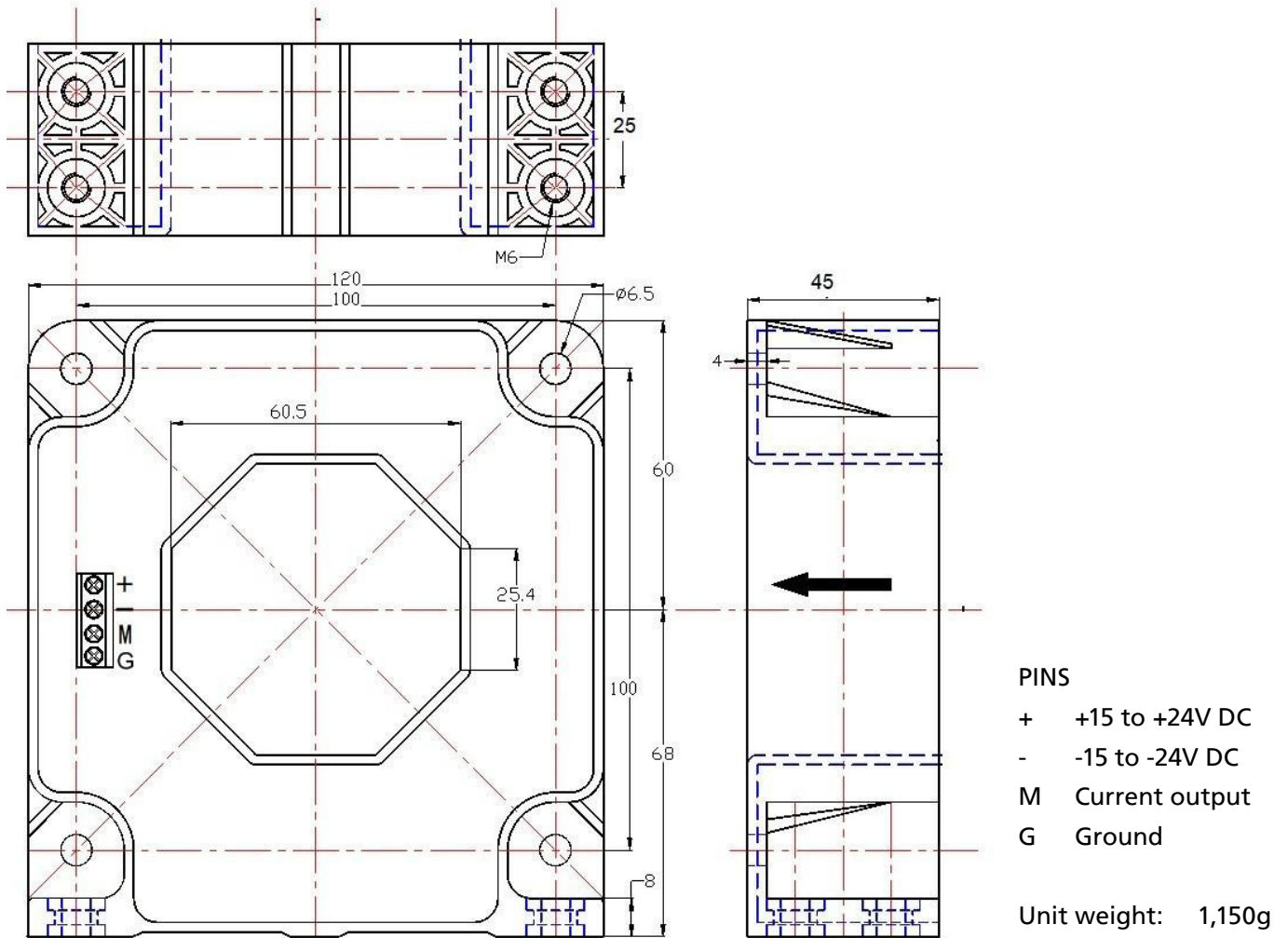
Nominal input current	1,000A
Measuring range	0 to $\pm 2,000A$
Nominal output signal	$\pm 20mA$
Supply voltage	$\pm 15V$ DC to $\pm 24V$ DC
Current consumption	$\leq 30mA$ + Input current / 5,000
Galvanic isolation	6kV, 50Hz, 1min

ACCURACY

Accuracy	$\pm 0.2\%$ for rated current 500A - 2,000A
Linearity	$\leq 0.1\%$ for rated current 500A - 2,000A

ENVIRONMENTAL

Operating temperature	-25°C to +85°C
Storage temperature	-40°C to +100°C

DIMENSIONS (MM)

IMPORTANT

Temperature of the primary conductor / busbar running through the sensor must not exceed 100°C.