

±0.2% ACCURACY

±2,000A MEASURING RANGE

6KV GALVANIC ISOLATION

[View SATEC's DC Energy Metering solutions on satec-global.com.au](https://www.satec-global.com.au)

HCS-1000A

1000A Hall Effect Solid Core DC Current Sensor

The HCS-1000A is a solid-core Hall effect sensor for measuring DC currents up to 1,000A nominal, designed for use with the range of SATEC devices that offer DC metering. The primary conductor or busbar passes directly through the sensor's solid core. The unit then outputs a proportional current signal to the connected meter.

With ±0.2% accuracy across its 500A–2,000A rated range, a compact enclosure and 6kV galvanic isolation, the HCS-1000A suits demanding DC applications from photovoltaic arrays and battery storage through to variable speed drives and UPS systems.



Main Features

Highlights

- High accuracy of ±0.2% for rated current
- Compact solid-core enclosure
- Wide current measuring range, 0 to ±2,000A

Applications

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

Specifications

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

ACCURACY	
Accuracy	±0.2% for rated current 500A–2,000A
Linearity	≤0.1% for rated current 500A–2,000A

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

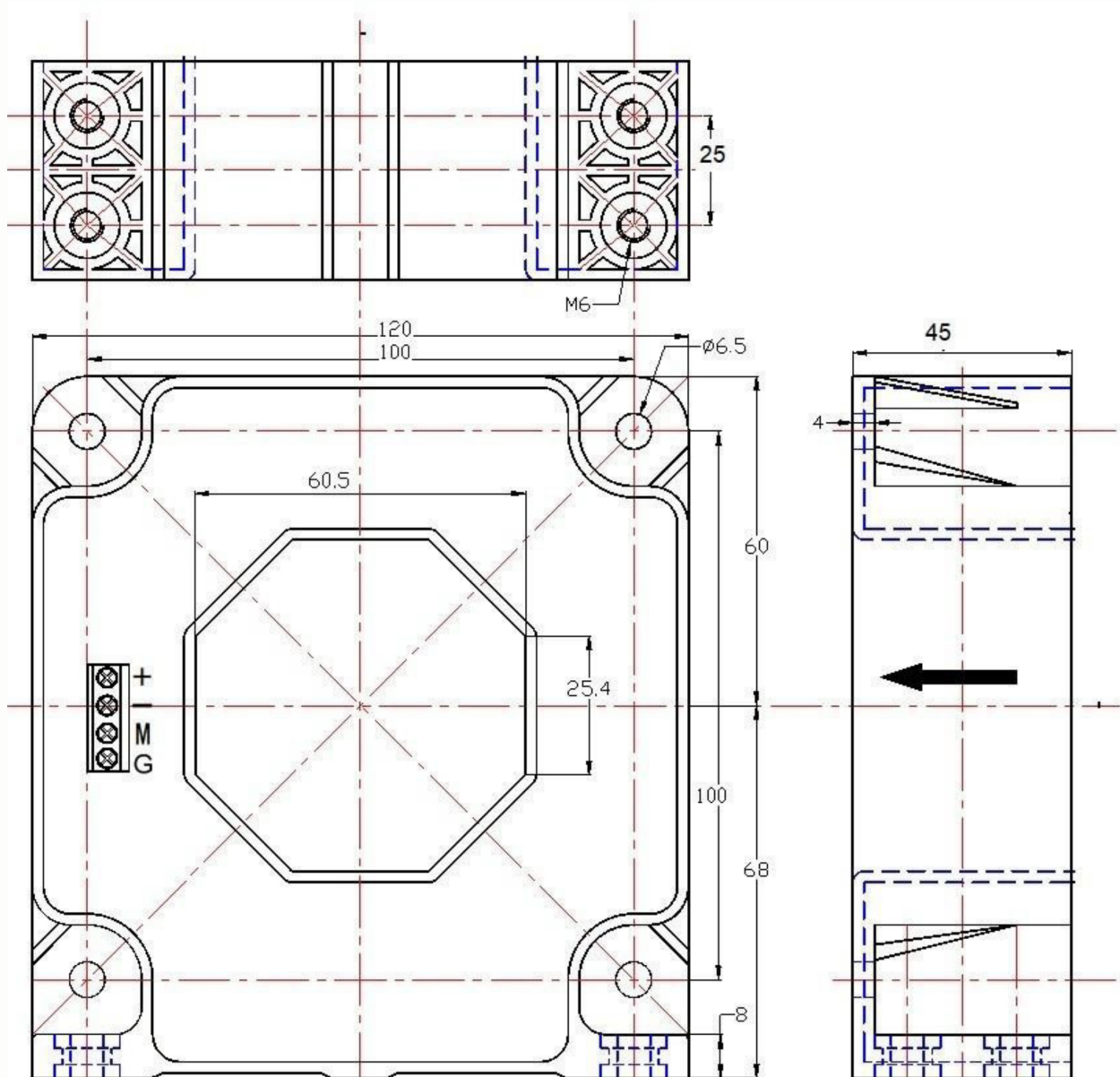
CONNECTIONS	
+	+15 to +24V DC
–	-15 to -24V DC
M	Current output
G	Ground

Specifications (continued)

CONSTRUCTION

Unit weight 1,150g

Dimensions (mm)



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

Ordering Information

The HCS-1000A is supplied as a single fixed-specification unit with no configurable order-code options. Contact the SATEC Australia sales team to place an order or request a quotation.

Related Current Sensors

HCS100-S

100A Hall Effect split-core DC current sensor.

[View datasheet ↗](#)

HCS-2000-S

2000A Hall Effect split-core DC current sensor.

[View datasheet ↗](#)

Place an Order



To place an order or request a quotation for the HCS-1000A, contact the SATEC Australia sales team or scan the QR code.

PHONE **+61 2 4774 2959**
 EMAIL **sales@satec-global.com.au**
 ONLINE **satec-global.com.au/contact**

DOCUMENT REVISION HISTORY

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