



Electro Standards Laboratories
ADVANCED SYSTEMS DESIGN & SERVICES

SPECIFICATIONS

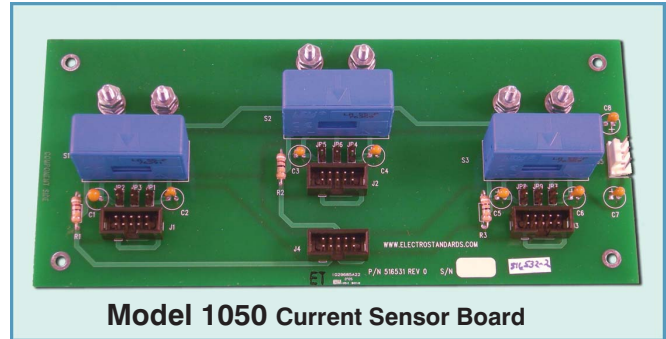
SENSOR BOARD: Model 1050 (Cat No. 516532)
OPTIONAL: Mating Connector Kit (Cat No. 517258)

Three Channel Current Sensor Board (50 Amp x 3)

- Provides safe, non-intrusive, reliable current sensing for Power Electronics applications.
- Precise current sensing with fast response time.

INTRODUCTION:

The Model 1050 is a three channel closed loop (compensated) current sensor unit which uses the Hall effect. The board contains three independent **50 amp** current sensors, which can either be independently powered or bussed together by means of jumper settings. Sensor full scale can be scaled by applying wire turns through the sensor body. For detailed connector Pin-outs and signal information, request Free User Manual.



SPECIFICATIONS:

General Data:

Primary Nominal RMS current **50A**
Primary Current Measurement Range 0, +/-70A
Supply Voltage (+/-5%) +/-12V, +/-15V
Measuring resistance @ 12 V – 91 Ohms
Secondary nominal RMS current 50mA
Conversion Ratio 1:1000

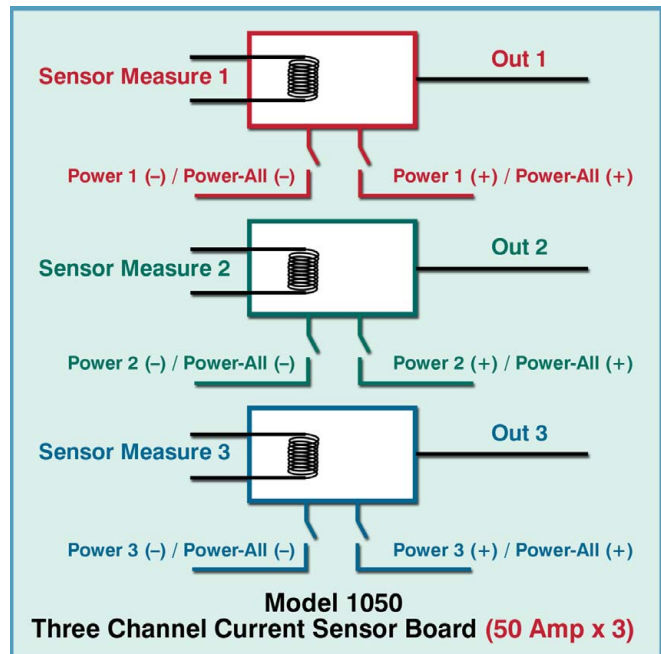
Accuracy (@ +/-15V) +/-0.45%
(@ +/-12V) +/-0.70%

Reaction Time @10% of IPN – <500ns
Response Time @90% of IPN – <1µs
Frequency Bandwidth (-1 dB) – DC, 200 kHz
Ambient operating temperature -41 to +85°C

Mechanical (Board Only):

Model / Cat No: 1050 / 516532
Size: 8.0" x 3.5" x 1.27" (20.3 x 8.9 x 3.2 cm)
Weight: 4.6 oz (130.41g)
Mounting: Four 0.15" Mounting Holes

**For 100-Amp Version, See:
Model 1100, Cat. No. 519286.**



OPTIONAL: Connector Kit Cat No 517258



OPTIONAL: Mating Connector Kit includes:

- (4) 10-Position (5 x 2) IDC connector with strain relief.
- (1) 20C, 28 AWG rainbow ribbon cable, 4 foot length.
- (1) 3-Position 0.156" spacing, female connector housing.
- (3) Female crimp contacts for 0.156" connector (for 12-18 AWG wire).
- (9) 0.1" spacing, shunt clips.
- **To Order Use Cat. No. 517258**