

MODELS CS-100 TO CS-300 PRECISION SHUNTS

- **EXCELLENT STABILITY**
- **ACCURACY TO 0.01 %**
- **100, 200 OR 300 AMPS**
- **LOW TEMPERATURE COEFFICIENTS**
- **DC AND AC USE**
- **RUGGED**



The CS series precision shunts are designed for highly accurate measurements of current.

The CS shunts feature good long term stability and a low temperature coefficient of resistance. Although designed for laboratory use, they are rugged enough to be installed in environments subject to wide variations in temperature and to vibration or shock.

Based on a design by Julie Research Laboratories, the CS series has gained wide acceptance in laboratories.

The CS shunts are of bifilar construction, with low reactance. They may be used with practically no degradation in accuracy at 50/60 Hz, and with close conformance at higher frequencies.

The temperature coefficient of resistance is less than 5 ppm / °C (CS-100 & CS-200); the CS-300 is less than 20 ppm / °C.

Connection is made via high quality, gold plated, solid copper binding posts.

Every shunt includes ISO 17025 accredited, NIST traceable calibration at 25, 50 and 100 % of rated current. Customer specified measurement points can be provided on request.

Standard CS models are listed; other Amp/Volt combinations are available on request.

For even higher precision low resistance standards, please see information on Ohm-Labs' 2000 series Low Resistance Standards.

Specifications

Model	Amps	Ohms	Output	Accuracy
CS-100	100	1 mΩ	0.1 V	0.01 %
CS-200	200	1 mΩ	0.2 V	0.02 %
CS-300	300	0.1 mΩ	30 mV	0.05 %

For special values, use the below example:

CS-150-0.1	150		0.1 V	0.03 %
------------	-----	--	-------	--------

AC-DC Conformance (at 50 amps)

Frequency	AC-DC Difference
60 Hz	< 0.01 %
100 Hz	< 0.015 %
1 kHz	< 0.1 %

