- IMPROVED ACCURACY
- WIDE RANGE: <0.1 A TO 300 A
- HIGH IMMUNITY FROM AMBIENT
 TEMPERATURE CHANGES

Ohm-Labs' innovative model MCS Multiple

Traditional passive shunts generate heat under power. Heat changes their resistance, and thus their voltage output. Various strategies – finned designs, even adding fans – have been

The MCS thermally bonds cooling modules to the shunts themselves. A thermistor embedded in the shunt monitors temperature.

As the temperature rises with the application of

current, the cooling modules remove heat,

reducing the major source of uncertainty in

10 K thermistors allow the user to monitor the

All shunts in the MCS are of bifilar

ISO17025 accredited, traceable calibration is

For less than the cost of five separate

construction, for close conformance between

included through the full current range of each

precision shunts, the MCS provides superior

Current Shunt is designed to reduce the main uncertainty in accurate current measurement.

tried to reduce errors from self-heating.

temperature of each shunt during use.

performance and greater versatility.

- DC or AC Use
- TRANSPORTABLE

current measurement.

DC and AC measurement.

Model MCS Temperature Stabilized Multiple Current Shunt

MCS Condensed Specifications

Current (I)	Resistance in Ohms	Volts at Rated I	Accuracy in %
3 A	1	3	
10 A	0.1	1	<0.01
30 A	0.01	0.3	
100 A	0.001	0.1	
300 A	0.000 1	0.03	<0.05

Stated accuracy is at time of manufacture Temperature Coefficient of Resistance: <5 ppm / °C TCR is change in resistance from 15° to 40°C Power coefficient (ppm/W): $1\Omega < 1$; $0.1\Omega < 2$; $0.01\Omega < 5$; 0.001Ω <10; 0.000 1Ω <30 12-month stability typically <10 ppm Connections: Potential: Low thermal EMF binding posts Current: 3/10/30 A: gold plated binding posts 100 A: 3/8-16 silicon-bronze posts 300 A: ¹/₂-13 silicon-bronze posts Thermistors: Mini-banana jacks Power: 100-240 VAC, 50/60 Hz Physical: 47x15x46 cm (17.75x5.25x18.25 in) 3U Weight: 20 kg / 44 lbs Warrantee: 2 years Accessories: Power cord, spare fuses Options: Current & potential cables, transit container

For traditional, passive shunts, please see our CSseries, or our line of low resistance standards.





shunt.