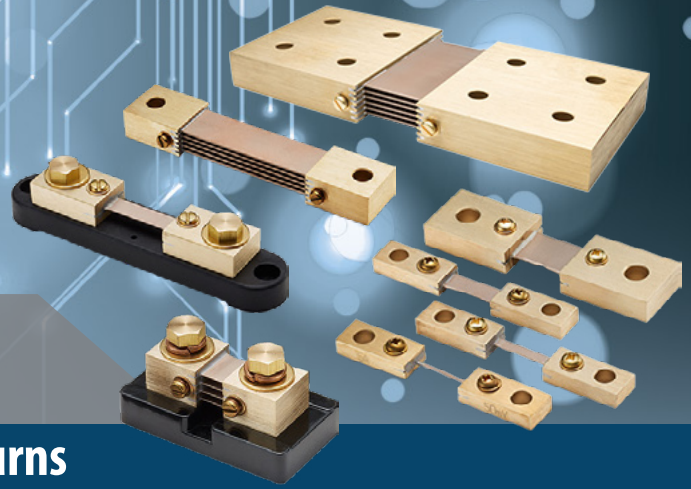


# NEW PRODUCT BRIEF

## Riedon™ Industrial Shunt Resistors by Bourns Model RS / RSH / RSI / RSJ / RSK / RSN / RSW Series



### INTRODUCTION

Bourns is introducing several model series of high power shunt resistors. The Riedon™ Model RS / RSH / RSI / RSJ / RSK / RSN / RSW Series by Bourns are high current rated industrial shunt resistors designed to provide rugged and accurate measurements in a wide range of currents. These new model shunt resistors are available in multiple configurations to meet virtually any mounting requirement.

### APPLICATIONS

- Battery Management Systems (BMS)
- Power supplies
- Power converters (AC-DC)
- Solar generators, wind power
- Heavy industry, electroplating
- Battery chargers, mining

### FEATURES

- High Current Ratings: Ranging from 1 A to 6000 A, suitable for solar generators, wind power, and heavy industry
- RoHS compliant\*
- Low Resistance Values: Achieved using Manganin™ resistive elements
- Custom Output Voltages: Flexibility for different ammeter designs
- Temperature Stability: Operating range from -40 °C to +100 °C
- Compact Design: Ideal for space-constrained applications
- Center-Mounted Voltage Taps: Simplifies connection to ammeters

### BENEFITS

- High current rated up to 6000 A
- Compact, robust construction with wide temperature operation range
- Accurate measurements in a broad range of currents

### HOW TO ORDER PANEL MOUNT

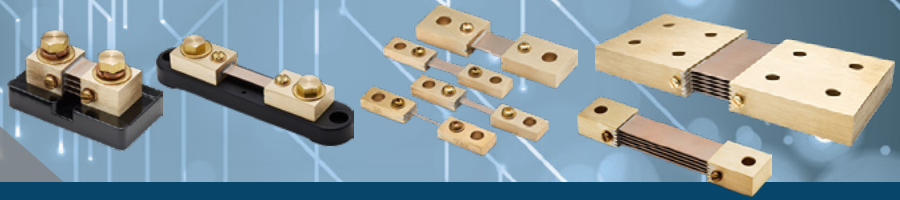
Model \_\_\_\_\_ **RSA - 100 - 50 - NB**  
Rated Current (see data sheet) \_\_\_\_\_  
1 = 1 A  
100 = 100 A  
Voltage Output (mV) \_\_\_\_\_  
50 = 50 mV  
100 = 100 mV  
Mounting \_\_\_\_\_  
(blank) = With Baseplate  
-NB = No Baseplate

### HOW TO ORDER BUSBAR MOUNT

Model \_\_\_\_\_ **RSW - 5 - 50 - TH**  
Rated Current (see data sheet) \_\_\_\_\_  
5 = 5 A  
100 = 100 A  
Voltage Output (mV) \_\_\_\_\_  
50 = 50 mV  
Optional Termination \_\_\_\_\_  
(blank) = Standard Termination  
-TH = Threaded Termination



\*RoHS Directive 2015/863, Mar 31, 2015 and Annex.

# NEW PRODUCT BRIEF

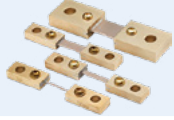




## Riedon™ Industrial Shunt Resistors by Bourns – Model RS / RSH / RSI / RSJ / RSK / RSN / RSW Series

### Panel Mount

Series	Photo	Rated Current	Resistance Range	Tolerance	Temperature Coefficient
RSN		1 - 500 A	0.1 - 100 mΩ	0.1 %	±15 PPM/°C
RS		5 - 1200 A	0.0417 - 20 mΩ	0.25 %	±15 PPM/°C

### Busbar Mount

Series	Photo	Rated Current	Resistance Range	Tolerance	Temperature Coefficient
RSW		5 - 200 A	0.25 - 10 mΩ	0.25 %	±15 PPM/°C
RSH		15 - 600 A	0.083 - 6.67 mΩ	0.25 %	±15 PPM/°C
RSI		300 - 1200 A	0.042 - 0.333 mΩ	0.25 %	±15 PPM/°C
RSJ		1500 - 6000 A	0.0083 - 0.067 mΩ	0.25 %	±15 PPM/°C
RSK		1000 - 3000 A	0.017 - 0.10 mΩ	0.25 %	±15 PPM/°C

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