

Valhalla Scientific, Inc.

Models 2555A 100Amp Current Calibrators (Specifications)

1-1. Description

The Valhalla Scientific Model 2555A AC-DC Current Calibrator is a wide-range voltage-to-current converter that produces an output current directly proportional to the input AC or DC voltage. AC voltage produces an output current of the same frequency and phase that is directly proportional in magnitude.

1-2. Performance Specifications

Ranges: 2mA, 20mA, 200mA, 2A, 20A, 100A

DC Accuracy: (360 days 23 °C ± 5 °C)

20 Amp range and below: ± 0.015% of range ± 0.03% of output

100 Amp Range: ± 0.03% of range ± 0.03% of output

AC Accuracy: (360 days 23 °C ± 5 °C)

20 Amp range and below: ± 0.15% of range ± 0.1% of output to 100Hz

± 0.2% of range ± 0.2% of output to 400Hz

± 0.3% of range ± 0.3% of output to 1000Hz

100 Amp range:

± 0.3% of range ± 0.1% of output to 100Hz

± 0.4% of range ± 0.2% of output to 400Hz

± 0.6% of range ± 0.3% of output to 1000Hz

Input Impedance: 100kΩ

Compliance Voltage: (At nominal line voltage and frequency)
100 ampere range typically 3V; 20 Amps and below 5V

Input/Output Ratio: 2.0000V input produces full scale output.
(1.0000V input maximum on 100A range)

Maximum Input: 3VDC or Peak AC

Input Common Mode: 60dB at DC linearly decreasing to
40dB at maximum frequency

Temperature Coeff.: ±.0002% of output ±.004% of range/°C for DC below 20°C and above
30°C (double above figures for AC Temperature Coefficient)

Upper Freq. Limit: 1kHz

1-3. Environmental Specifications

Temperature Range:

Operating: 0° C to 50° C

Storage: -25° C to +75° C

1-4. Physical Specifications

Size: 10.5" H x 17" W x 23" D (Fan included)

Weight: 100 lbs. net, 140 lbs. shipping
45 Kg. net, 66 Kg. shipping