



Calibration Report of TDK Lambda GENH 60-12.5 DC Power Supply, Dual Channel

MPC Control #:	11K5895Z	Serial Number:	11K5895Z
Asset ID:	91989	Calibration Date:	March 30, 2019

DC Voltage Accuracy

Function Tested	Nominal	Lower Limit	As Found	As Left	Upper Limit	Result	Uncertainty ($\pm$)
0 to 60 V	1.000000 V	0.995000 V	1.004902 V	1.004902 V	1.005000 V	PASS	0.0000053 V
0 to 60 V	5.000000 V	4.975000 V	5.004853 V	5.004853 V	5.025000 V	PASS	0.000026 V
0 to 60 V	10.00000 V	9.95000 V	9.99590 V	9.99590 V	10.05000 V	PASS	0.000051 V
0 to 60 V	15.00000 V	14.92500 V	14.99629 V	14.99629 V	15.07500 V	PASS	0.00014 V
0 to 60 V	20.00000 V	19.90000 V	19.99640 V	19.99640 V	20.10000 V	PASS	0.00018 V
0 to 60 V	25.00000 V	24.87500 V	24.99305 V	24.99305 V	25.12500 V	PASS	0.00021 V
0 to 60 V	30.00000 V	29.85000 V	29.99237 V	29.99237 V	30.15000 V	PASS	0.00025 V
0 to 60 V	60.00000 V	59.70000 V	59.99275 V	59.99275 V	60.30000 V	PASS	0.00047 V

DC Current Accuracy

Function Tested	Nominal	Lower Limit	As Found	As Left	Upper Limit	Result	Uncertainty ($\pm$)
0 to 12.5 A	1.000000 A	0.990000 A	0.991450 A	0.991450 A	1.010000 A	PASS	0.00013 A
0 to 12.5 A	5.000000 A	4.950000 A	4.989510 A	4.989510 A	5.050000 A	PASS	0.00070 A
0 to 12.5 A	10.00000 A	9.90000 A	9.98919 A	9.98919 A	10.10000 A	PASS	0.0014 A
0 to 12.5 A	12.50000 A	12.37500 A	12.49872 A	12.49872 A	12.62500 A	PASS	0.0018 A

Statements of Pass or Fail Conformance

The uncertainty of measurement has been taken into account when determining compliance with specification, as per ILAC-G8:03/2009.

All measurements and test results guard banded to ensure the probability of false-accept does not exceed 2% in compliance with ANSI/NCCL Z540.3-2006.

The status of compliance with the acceptance criteria is reported as:

- PASS** - Compliant with specification
- FAIL** - Not compliant with specification.
- FAIL^z** - The measured value is not within the acceptance limits. However, a portion of the expanded uncertainty of measurement at 95% is within the specified tolerance.
- PASS^z** - The measured value is within acceptance limits. However, a portion of the expanded uncertainty of measurement at 95% exceeds the specified tolerance.

The expanded uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor $k=2$, which for a normal distribution corresponds to a coverage probability of approximately 95%, unless otherwise stated.

This calibration report complies with ISO/IEC 17025:2017 and ANSI/NCCL Z540.3 Method 6-Guard Bands based on Test Uncertainty Ratio.

- End of Calibration Report -