

**CERTIFICATE OF
 CALIBRATION**



Certificate No. ACT-1272

CERTIFICATION NUMBER	CP134-00408-840	IDENTIFICATION	EL-011A
FOR	Sample Manufacturing 3121 Medalist Drive Oshkosh, WI 54902	SERIAL NUMBER	408
TEST INSTRUMENT	Power Supply Power System Simulator	PURCHASE ORDER #	
MAKE	Doble	PROCEDURES FOLLOWED	EL-011A rev. 1
MODEL	F6150	STANDARDS USED	
CUSTOMER LOCATION	Location1 Location2	INSTRUMENT	SERIAL NUMBER
CONDITION RECEIVED	In Tolerance	FVS-518	12080013
CONDITION RETURNED	In Tolerance	STL-069	2823A02911
CALIBRATED BY	Brian L Gliszinski	STL-736	SY51C24201237
REVIEWED/ISSUED	D.P. 07/29/2025	STL-815	8035205
CALIBRATION LOCATION	FVM	TRACE NUMBER	NEXT CAL
ENVIRONMENT	69.0°F, 31.0%RH, 28.92inHg	C0250-55712-629	08/28/2025
CALIBRATION DATE	05/14/2025	C0351-36219-823	12/31/2025
RECALIBRATION DUE	05/14/2026	CP021-57420-376	01/31/2026
		CN341-32377-663	05/31/2025



CALIBRATION RESULTS

* DENOTES "OUT OF TOLERANCE"

FEATURE	NOMINAL	LOWER LIMIT	UPPER LIMIT	AS FOUND	AS LEFT	UNCERTAINTY
Convertible Source - AC Voltage Tests						
V1						
75VA Source	(V)	(V)	(V)	(V)	(V)	(V)
75Vac Range	70.00	69.93	70.07	70.00	70.00	6.0E-3
150Vac Range	150.00	149.86	150.14	150.00	150.00	6.0E-3
150VA Source	(V)	(V)	(V)	(V)	(V)	(V)
300Vac Range	290.00	289.73	290.27	290.00	290.00	6.0E-3
THD	(%)	(%)	(%)	(%)	(%)	(%)
	0.00	0.00	0.10	0.00	0.00	6.0E-3
V2						
75VA Source	(V)	(V)	(V)	(V)	(V)	(V)
75Vac Range	70.00	69.93	70.07	70.00	70.00	6.0E-3
150Vac Range	150.00	149.86	150.14	150.00	150.00	6.0E-3
150VA Source	(V)	(V)	(V)	(V)	(V)	(V)
300Vac Range	290.00	289.73	290.27	290.00	290.00	6.0E-3
THD	(%)	(%)	(%)	(%)	(%)	(%)
	0.00	0.00	0.10	0.00	0.00	6.0E-3
V3						
75VA Source	(V)	(V)	(V)	(V)	(V)	(V)

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FEATURE	NOMINAL	LOWER LIMIT	UPPER LIMIT	AS FOUND	AS LEFT	UNCERTAINTY
75Vac Range	70.00	69.93	70.07	70.00	70.00	6.0E-3
150Vac Range	150.00	149.86	150.14	150.00	150.00	6.0E-3
150VA Source	(V)	(V)	(V)	(V)	(V)	(V)
300Vac Range	290.00	289.73	290.27	290.00	290.00	6.0E-3
THD	(%)	(%)	(%)	(%)	(%)	(%)
	0.00	0.00	0.10	0.00	0.00	6.0E-3
Current Source						
- AC Current						
Tests						
I1	(A)	(A)	(A)	(A)	(A)	(A)
7.5Aac Range	7.000	6.993	7.007	7.000	7.000	6.0E-4
15Aac Range	14.000	13.987	14.013	14.000	14.000	6.0E-4
150VA Source	(A)	(A)	(A)	(A)	(A)	(A)
30Aac Range	29.00	28.97	29.03	29.00	29.00	6.0E-3
I2	(A)	(A)	(A)	(A)	(A)	(A)
7.5Aac Range	7.000	6.993	7.007	7.000	7.000	6.0E-4
15Aac Range	14.000	13.987	14.013	14.000	14.000	6.0E-4
150VA Source	(A)	(A)	(A)	(A)	(A)	(A)
30Aac Range	29.00	28.97	29.03	29.00	29.00	6.0E-3
I3	(A)	(A)	(A)	(A)	(A)	(A)
7.5Aac Range	7.000	6.993	7.007	7.000	7.000	6.0E-4
15Aac Range	14.000	13.987	14.013	14.000	14.000	6.0E-4
150VA Source	(A)	(A)	(A)	(A)	(A)	(A)
30Aac Range	29.00	28.97	29.03	29.00	29.00	6.0E-3
Phase Angle						
Tests						
	(deg)	(deg)	(deg)	(deg)	(deg)	(deg)
	0.0	-0.3	0.3	0.0	0.0	6.0E-2
	90.0	89.7	90.3	90.0	90.0	6.0E-2
	180.0	179.7	180.3	180.0	180.0	6.0E-2
Frequency						
Tests						
	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)
	50.000	49.999	50.001	50.000	50.000	6.0E-4
	60.000	59.999	60.001	60.000	60.000	6.0E-4
	400.000	399.999	400.001	400.000	400.000	6.0E-4
Battery Simulator						

Fox Valley Metrology

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FEATURE	NOMINAL	LOWER LIMIT	UPPER LIMIT	AS FOUND	AS LEFT	UNCERTAINTY
Tests - DC Voltage	(V)	(V)	(V)	(V)	(V)	(V)
	48.00	45.60	50.40	48.00	48.00	6.0E-3
	125.0	118.7	131.3	125.0	125.0	6.0E-2
	250.0	237.5	262.5	250.0	250.0	6.0E-2

COMMENTS

Example certificate, actual results and uncertainties will be reported at the time of calibration. Nominal and limits may vary based on actual make/model.

- This certificate shall not be altered in any form or reproduced, except in full, without prior written approval from originating lab. These results relate only to the item(s) calibrated. Form Revision 10: 06/04/2024
- Total expanded measurement uncertainties expressed are based on a confidence level of 95%; coverage factor of (k=2). The statement of compliance in this certificate was issued without taking the uncertainty of measurement into consideration. The customer shall assess the results and uncertainty when determining if the results meet their needs. (This is considered "shared responsibility.") Uncertainties expressed in nominal units.
- The calibrations within the certificate/report are traceable through NIST or another National Metrology Institute to the International System of Units (SI). Calibration was completed in accordance with ISO/IEC 17025:2017, ANSI/NCSL Z540-1-1994 and ANSI/NCSL Z540.3-2006. Other standards listed upon request.