

SEMI F47-0706 Compliance Certificate EPRI PQ Starsm Test Program

Certification Date: 4/24/09

PQ Star Reference Number:
SEMIF47.155

Manufacturer:
Mean Well

Product:
Power Supply 24Vdc 20A
Power Supply 48Vdc 10A

Test Dates:
4/23/2009

Model Number and Load
SDR-480-24: 100% Load
SDR-480-48: 100% Load

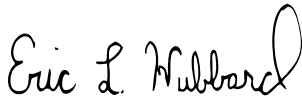
Test Location:
EPRI
942 Corridor Park Blvd
Knoxville, TN 37932

Test Configuration: The power supplies were tested using EPRI's SEMI F47 compliant voltage sag generator.

Electrical Environment:
208Vac 50/60Hz
(See Attachments A for detailed Results)

This letter and subsequent documentation certifies that the above specified Mean Well power supplies have been voltage sag tested per SEMI F47-0706 and were found to comply with the voltage sag immunity standard. This certification remains valid to the models tested only and as long as no component substitutions are made.

Certified by,


Eric L. Hubbard
PQ Engineer



**SDR-480-24 & SDR-480-48
DC Power Supplies**

Attachment A – SEMI F47 Test Configuration and Test Results

Testing was performed EPRI’s Power Quality Laboratory in Knoxville, TN. To ensure maximum accuracy of the test, a variable voltage source was used to control the voltage and frequency, and an electronic load bank was used to ensure 100% loading. This was verified at the power supply with a qualified meter. Figure A-1 shows the test configuration.

Figure 1: Test Setup

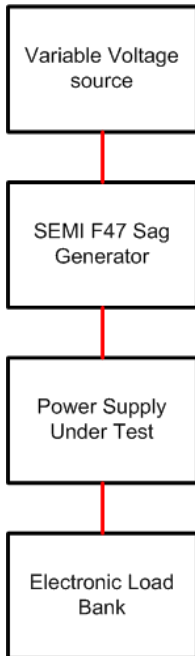


Table A-1 through Table A-2 show the related curves and test points for the power supplies under test.

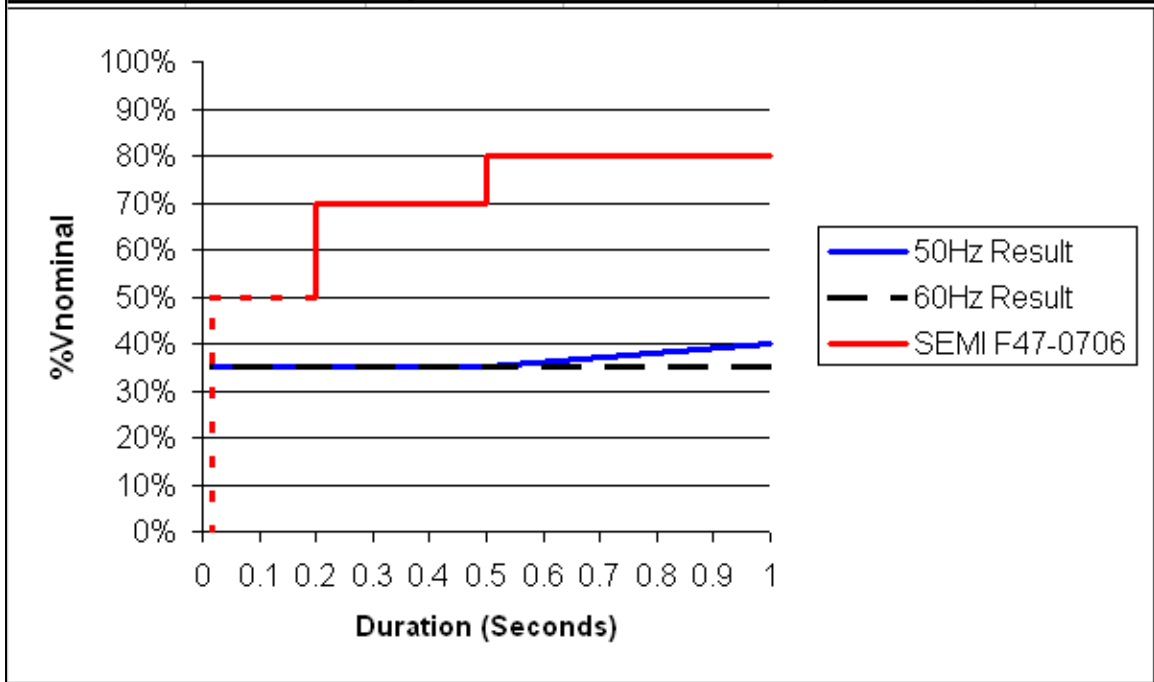
Table A-1: Mean Well SDR-480-24 Test Results

Part Number:	SDR-480-24			
Test Voltage:	208Vac			
Basic Spec	PS-24Vdc-20A			
Date:	4/20/2009			
Tested By:	EH			
Loading:	480W 20A			
Notes:	16Awg Wire			
50Hz Testing				
Cycles	Seconds	50Hz Result	SEMI F47-0706	Result (Pass/Fail)
50	1	40%	0.8	
25	0.5	35%	0.7	
10	0.2	35%	0.5	
2.5	0.05	30%	0.05	
1	0.02	10%	0	
60Hz Testing				
Cycles	Seconds	60Hz Result	SEMI F47-0706	Result (Pass/Fail)
60	1	40%	0.8	
30	0.5	35%	0.7	
12	0.2	35%	0.5	
3	0.05	30%	0.05	
1	0.017	0%	0	
Note: SEMI F47-0706 0%Vnom, 1 Cycle Test Point is Recommended Only and Not Required.				

Table A-2: Mean Well SDR-480-48 Test Results

Part Number:	SDR-480-48			
Test Voltage:	208Vac			
Basic Spec	PS-48Vdc-10A			
Date:	4/20/2009			
Tested By:	EH			
Loading:	480W 10A			
Notes:	10AWG wire			
50Hz Testing				
Cycles	Seconds	50Hz Result	SEMI F47-0706	Result (Pass/Fail)
50	1	40%	0.8	
25	0.5	35%	0.7	
10	0.2	35%	0.5	
2.5	0.05	35%	0.05	
1	0.02	35%	0	
60Hz Testing				
Cycles	Seconds	60Hz Result	SEMI F47-0706	Result (Pass/Fail)
60	1	35%	0.8	
30	0.5	35%	0.7	
12	0.2	35%	0.5	
3	0.05	35%	0.05	
1	0.017	35%	0	

Note: SEMI F47-0706 0%Vnom, 1 Cycle Test Point is Recommended Only and Not Required.



A photo of the actual test setup is shown in Figure 2.

Figure 2: Test Setup

Test
Bench and
Power
Supplies



Variable Power
supply

100A Sag
Generator

3kW
Electronic
Load Bank