

## SEMI F47-0706 Compliance Certificate EPRI PQ Star<sup>sm</sup> Test Program

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**Certification Date:** October 17, 2008

**PQ Star Reference Number:**  
SEMIF47.154

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

**Manufacturer:**  
Mean Well

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

**Product:**  
Power Supply 24Vdc 10A  
Power Supply 48Vdc 5A

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

**Test Dates:**  
10/16/2008

**Model Number and Load**  
SDR-240-24: 100% Load  
SDR-240-48: 100% Load

This letter and subsequent documentation certifies that the above specified Mean Well power supplies has been voltage sag tested per SEMI F47-0706 and was 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.  
Technologist

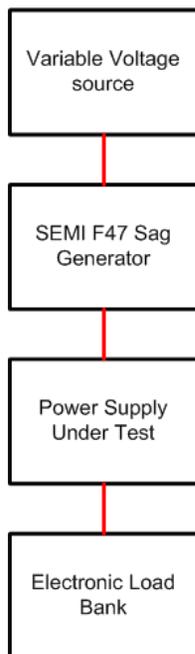


## Attachment A – SEMI F47 Test Configuration and Test Results

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 configuration of the testing.

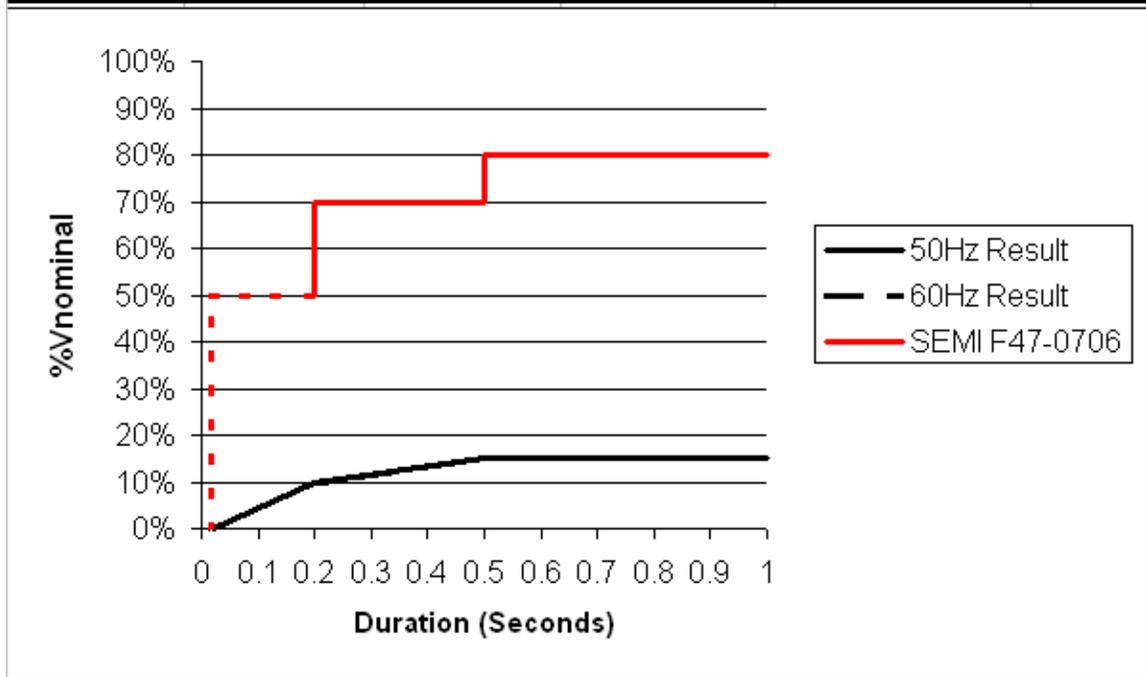
Table A-1 through Table A-2 shows the related curves and test points for the power supplies under test.

**Figure 1: Test Setup**



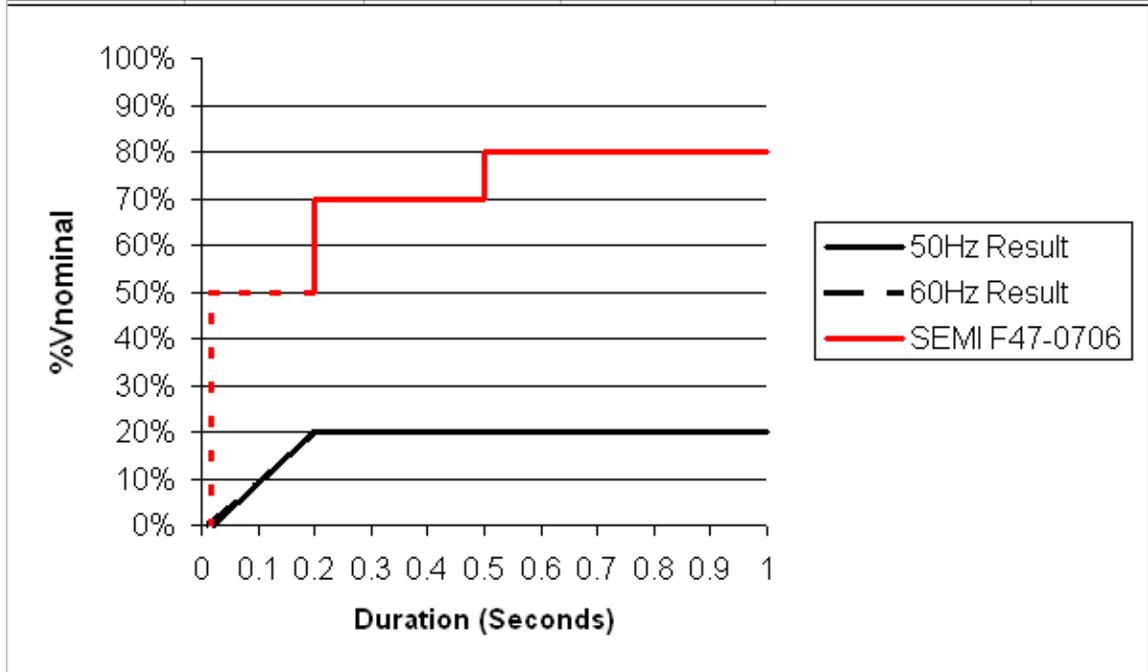
**Table 1: Mean Well SDR-240-24**

<b>Part Number:</b>	SDR-240-24			
<b>Test Voltage:</b>	208Vac			
<b>Basic Spec</b>	PS 24Vdc 10A			
<b>Date:</b>				
<b>Tested By:</b>				
<b>Loading:</b>	240 Watts			
<b>Notes:</b>				
<b>50Hz Testing</b>				
Cycles	Seconds	50Hz Result	SEMI F47-0706	Result (Pass/Fail)
50	1	15%	0.8	
25	0.5	15%	0.7	
10	0.2	10%	0.5	
1	0.02	0%	0	Can ride through 6 cyc
<b>60Hz Testing</b>				
Cycles	Seconds	60Hz Result	SEMI F47-0706	Result (Pass/Fail)
60	1	15%	0.8	
30	0.5	15%	0.7	
12	0.2	10%	0.5	
1	0.017	0%	0	can ride through 6 cycles
Note: SEMI F47-0706 0%Vnom, 1 Cycle Test Point is Recommended Only and Not Required.				



**Table 2: Mean Well SDR-240-48**

<b>Part Number:</b>	SDR-240-48			
<b>Test Voltage:</b>	208Vac			
<b>Basic Spec</b>	PS 48Vdc 5A			
<b>Date:</b>				
<b>Tested By:</b>				
<b>Loading:</b>	240 Watts			
<b>Notes:</b>				
<b>50Hz Testing</b>				
Cycles	Seconds	50Hz Result	SEMI F47-0706	Result (Pass/Fail)
50	1	20%	0.8	
25	0.5	20%	0.7	
10	0.2	20%	0.5	
1	0.02	0%	0	can ride thorough up to 5 cycles
<b>60Hz Testing</b>				
Cycles	Seconds	60Hz Result	SEMI F47-0706	Result (Pass/Fail)
60	1	20%	0.8	
30	0.5	20%	0.7	
12	0.2	20%	0.5	
1	0.017	0%	0	can ride through 5 cycles
Note: SEMI F47-0706 0%Vnom, 1 Cycle Test Point is Recommended Only and Not Required.				



**Figure 2: Test Setup**

Test Bench  
and Power  
Supplies



Variable Power  
supply

100A Sag  
Generator

3kW  
Electronic  
Load Bank