

Super Flower Leadex VII XP 1000W

Anex

Lab ID#: SF10002194 Receipt Date: Jun 9, 2023 Test Date: Jun 14, 2023

Report: 23PS2194A

Report Date: Jun 15, 2023

Brand	Super Flower
Manufacturer (OEM)	Super Flower
Series	Leadex VII
Model Number	SF-1000F14XP
Serial Number	
DUT Notes	

DUT SPECIFICATIONS				
Rated Voltage (Vrms)	100-240			
Rated Current (Arms)	15			
Rated Frequency (Hz)	60-50			
Rated Power (W)	1000			
Туре	ATX12V			

Cooling	140mm Fluid Dynamic Bearing Fan (ZFF142512D)
Semi-Passive Operation	✓ (selectable)
Cable Design	Fully Modular

TEST EQUIPMENT	
Electronic Loads	Chroma 63601-5 x2 Chroma 63600-2 63640-80-80 x10 63610-80-20
AC Sources	Chroma 6530, APM SP300VAC4000W-P
Power Analyzers	RS HMC8015, N4L PPA1530, N4L PPA5530
Oscilloscopes	Picoscope 4444, Rigol DS7014, Siglent SDS2104X PLUS
Sound Analyzer	Bruel & Kjaer 2270 G4
Microphone	Bruel & Kjaer Type 4955-A
Temperature Logger	Picoscope TC-08
Tachometer	UNI-T UT372
Multimeters	Keysight 34465A, Keithley 2015 - THD
UPS	FSP Champ Tower 3kVA, CyberPower OLS3000E 3kVA
Isolation Transformer	4kVA

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EFFICIENCY AND NOISE LEVEL CERTIFICATIONS

Super Flower Leadex VII XP 1000W

RESULTS	
Temperature Range (°C /°F)	30-32 / 86-89.6
ErP Lot 3/6 Ready	J
(EU) No 617/2013 Compliance	1
ALPM (Alternative Low Power Mode) compatible	1
ATX v3.0 PSU Power Excursion	J

115V		230V		
Average Efficiency	90.573%	Average Efficiency	92.347%	
Efficiency With 10W (≤500W) or 2% (>500W)	71.308	Average Efficiency 5VSB	78.202%	
Average Efficiency 5VSB	79.355%	Standby Power Consumption (W)	0.1050000	
Standby Power Consumption (W)	0.0640000	Average PF	0.952	
Average PF	0.989	Avg Noise Output	33.13 dB(A)	
Avg Noise Output	32.37 dB(A)	Efficiency Rating (ETA)	PLATINUM	
Efficiency Rating (ETA)	PLATINUM	Noise Rating (LAMBDA)	Standard++	
Noise Rating (LAMBDA)	Standard++			

POWER SPECIFICATIONS

Rail		3.3V	5V	12V	5VSB	-12V
Max. Power	Amps	20	20	83.3	3	0.5
	Watts	100		999.6	15	6
Total Max. Power (W)		1000				

HOLD-UP TIME & POWER OK SIGNAL (230V)

Hold-Up Time (ms)	26.7
AC Loss to PWR_OK Hold Up Time (ms)	24.1
PWR_OK Inactive to DC Loss Delay (ms)	2.6

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EFFICIENCY AND NOISE LEVEL CERTIFICATIONS

Super Flower Leadex VII XP 1000W

CABLES AND CONNECTORS

Modular Cables				
Description	Cable Count	Connector Count (Total)	Gauge	In Cable Capacitors
ATX connector 20+4 pin (600mm)	1	1	16-20AWG	No
4+4 pin EPS12V (700mm)	2	2	18AWG	No
6+2 pin PCle (700mm)	4	4	16AWG	No
12+2 pin PCle (700mm) (600W)	1	1	16-24AWG	No
SATA (550mm+130mm+130mm+130mm)	3	12	18AWG	No
4-pin Molex (550mm+150mm+150mm+150mm)	1	4	18AWG	No
AC Power Cord (1370mm) - C13 coupler	1	1	18AWG	-

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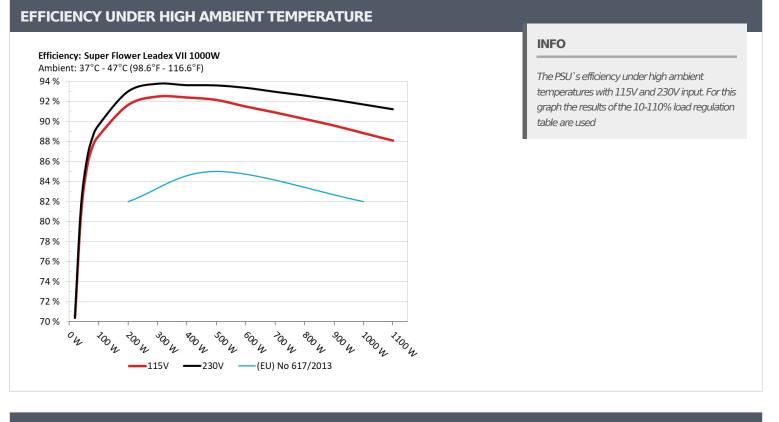
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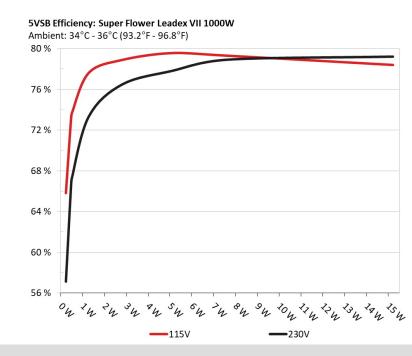


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Super Flower Leadex VII XP 1000W



5VSB EFFICIENCY



INFO

This graph depicts the efficiency levels of the 5VSB rail with 115V and 230V input

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5VSB EFFICIENCY -115V (ERP LOT 3/6 & CEC)					
Test #	5VSB	DC/AC (Watts)	Efficiency	PF/AC Volts	
1	0.045A	0.231W	- 66 22E0/	0.036	
1	5.125V	0.348W	66.325%	114.87V	
2	0.09A	0.461W		0.063	
2	5.124V	0.628W	73.442%	114.86V	
	0.55A	2.814W	79.365%	0.271	
3	5.116V	3.546W		114.86V	
	1A	5.108W	00.0000/	0.359	
4	5.108V	6.382W	80.039%	114.86V	
-	1.5A	7.648W	70 7770/	0.413	
5	5.099V	9.587W	79.777%	114.86V	
6	ЗА	15.213W	70.07.40/	0.479	
	5.071V	19.288W	78.874%	114.85V	

5VSB EFFICIENCY -230V (ERP LOT 3/6 & CEC)

Test #	5VSB	DC/AC (Watts)	Efficiency	PF/AC Volts
1	0.045A	0.231W	57 (200)	0.012
1	5.124V	0.401W	57.629%	229.94V
2	0.09A	0.461W	66 01 50/	0.021
2	5.124V	0.689W	66.815%	229.94V
3	0.55A	2.814W	70.0010/	0.106
	5.116V	3.656W	76.981%	229.94V
4	1A	5.108W	70 2110/	0.175
	5.108V	6.523W	78.311%	229.94V
5	1.5A	7.648W	70.4000/	0.23
	5.099V	9.631W	79.408%	229.94V
6	3A	15.215W		0.336
	5.072V	19.089W	79.703%	229.94V

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EFFICIENCY AND NOISE LEVEL CERTIFICATIONS

Super Flower Leadex VII XP 1000W

115V

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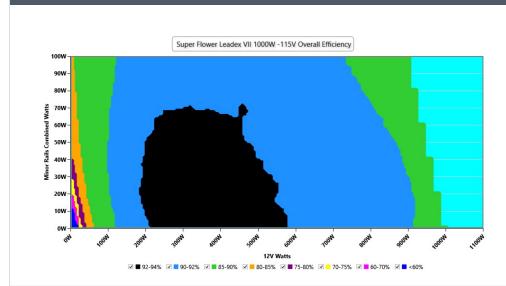
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Super Flower Leadex VII XP 1000W

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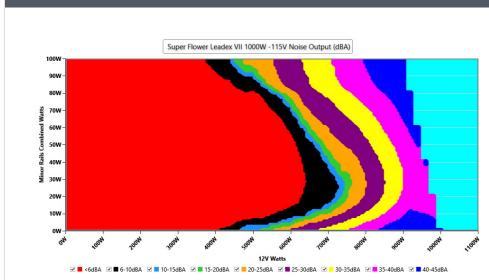
EFFICIENCY GRAPH 115V



INFO

This graph depicts the PSU's efficiency throughout its entire operational range. For the generation of the efficiency and noise graphs we set our loaders to auto mode through our custom-made software before trying thousands of possible load combinations

NOISE GRAPH 115V



INFO

The PSU's noise in its entire operational range and under 30-32 °C ambient is depicted in this graph. The X axis represents the load on the +12V rail(s) while the Y axis is the load on the minor rails

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Anex

VAMPIRE POWER -115V

Detailed Results										
	Average	Min	Limit Min	Max	Limit Max	Result				
Mains Voltage RMS:	114.87 V	114.81 V	113.85 V	114.92 V	116.15 V	PASS				
Mains Frequency:	60.00 Hz	59.98 Hz	59.40 Hz	60.01 Hz	60.60 Hz	PASS				
Mains Voltage CF:	1.418	1.417	1.340	1.420	1.490	PASS				
Mains Voltage THD:	0.15 %	0.09 %	N/A	0.25 %	2.00 %	PASS				
Real Power:	0.064 W	0.043 W	N/A	0.084 W	N/A	N/A				
Apparent Power:	9.841 W	9.813 W	N/A	9.874 W	N/A	N/A				
Power Factor:	0.006	N/A	N/A	N/A	N/A	N/A				

INFO

This graph is generated by the PPA Standby Power Analysis software which takes full control of the power analyzer during the whole procedure. This application features all of the EN50564 & IEC62301 test limits for standby power software testing

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10-1	10% LOA	D TESTS	115V							
Test	12V	5V	3.3V	5VSB	DC/AC (Watts)	Efficiency	Fan Speed (RPM)	PSU Noise (dB[A])	Temps (In/Out)	PF/AC Volts
10%	6.497A	1.987A	1.972A	0.981A	99.985	88.535%	0	<6.0	44.32°C	0.962
1070	12.065V	5.032V	3.347V	5.099V	112.934	00.000/0	0	<0.0	40.07°C	114.84V
20%	14.019A	2.981A	2.959A	1.179A	199.929	91.62%	0	<6.0	45.16°C	0.984
2070	12.057V	5.033V	3.345V	5.089V	218.216	51.0270	0	<0.0	40.58°C	114.8V
30%	21.904A	3.476A	3.454A	1.378A	299.976	92.462%	0	<6.0	46.38°C	0.991
5070	12.049V	5.034V	3.344V	5.079V	324.434	92.40270	0	<0.0	41.29°C	114.76V
40%	29.756A	3.972A	3.948A	1.578A	399.535	92.367%	404	<6.0	41.81°C	0.993
4070	12.042V	5.036V	3.344V	5.069V	432.548	92.30770	404	<0.0	47.28°C	114.74V
50%	37.284A	4.965A	4.938A	1.779A	499.27	92.124%	421	<6.0	42.47°C	0.994
J070	12.036V	5.036V	3.342V	5.06V	541.96	92.12470	421	<0.0	48.55°C	114.69V
60%	44.889A	5.958A	5.928A	1.98A	599.803	91.465%	726	24.9	42.61°C	0.995
0070	12.029V	5.036V	3.34V	5.05V	655.778	91.40970	720		49.22°C	114.66V
70%	52.441A	6.951A	6.92A	2.183A	699.543	90.872%	1058	36.6	43.39°C	0.995
7070	12.022V	5.036V	3.339V	5.04V	769.817	50.07270	1050		50.47°C	114.62V
80%	60.041A	7.945A	7.912A	2.286A	799.572	90.226%	1306	43.6	43.73°C	0.996
0070	12.020V	5.036V	3.337V	5.032V	886.188		1500	-5.0	52.01°C	114.58V
90%	67.965A	8.439A	8.397A	2.389A	899.346	89.571%	1501	46.2	44.56°C	0.996
3070	12.019V	5.036V	3.335V	5.024V	1004.057	09.97170	1501	40.2	53.59°C	114.54V
100%	75.707A	8.935A	8.911A	2.997A	999.389	88.818%	1694	48.5	45.65°C	0.996
10070	12.016V	5.037V	3.333V	5.006V	1125.226	00.01070	1004	-0.5	55.66°C	114.49V
110%	83.390A	9.926A	9.996A	3.001A	1099.99	88.067%	1861	51.8	46.51°C	0.996
11070	12.012V	5.037V	3.331V	4.999V	1249.044		1001	51.0	57.42°C	114.45V
CL1	0.116A	11.959A	11.855A	0A	101.303	83.733%	549	15.2	40.5°C	0.964
	12.070V	5.034V	3.349V	5.108V	120.996			13.2	45.99°C	114.83V
CL2	0.115A	19.877A	0A	0A	101.379	82.977%	405	<6.0	40.93°C	0.964
	12.072V	5.03V	3.356V	5.111V	122.178	02.37770		<0.0	47.95°C	114.84V
CL3	0.115A	0A	19.734A	0A	67.385	77.615%	715	24.3	41.1°C	0.955
	12.069V	5.042V	3.344V	5.109V	86.823	//.013/0	, 15	27.3	50.19°C	114.85V
CL4	83.234A	0A	0A	0A	999.952	89.585%	1521	47.2	45.53°C	0.996
	12.014V	5.037V	3.335V	5.069V	1116.214	00.00070	1921	77.2	56.49°C	114.51V

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Anex

Super Flower Leadex VII XP 1000W

20-80W LOAD TESTS 115V										
Test	12V	5V	3.3V	5VSB	DC/AC (Watts)	Efficiency	Fan Speed (RPM)	PSU Noise (dB[A])	Temps (In/Out)	PF/AC Volts
2014/	1.230A	0.497A	0.493A	0.195A	19.993		_	<6.0	40.08°C	0.823
20W	12.071V	5.027V	3.346V	5.12V	28.345	70.535%	0		36.97°C	114.88V
40147	2.708A	0.696A	0.69A	0.293A	39.993	00 (70/	80.67% 0	<6.0	40.8°C	0.917
40W	12.069V	5.028V	3.346V	5.117V	49.577	80.67%			37.54°C	114.87V
C014/	4.186A	0.895A	0.887A	0.391A	59.993	05 240/	_	<6.0	42.21°C	0.952
60W	12.068V	5.029V	3.346V	5.114V	70.295	85.34%	0		38.47°C	114.86V
00144	5.661A	1.093A	1.085A	0.489A	79.932	07 5050/	87.525% 0	<6.0	43.98°C	0.956
80W	12.066V	5.03V	3.346V	5.11V	91.326	87.525%			40°C	114.84V

RIPPLE MEASUREMENTS 115V

	5V 6.34mV 6.96mV	3.3V 9.31mV	5VSB 13.57mV	Pass/Fail
		9.31mV	13.57mV	Pacc
mV	6.96mV			1 0 3 3
		9.57mV	14.71mV	Pass
mV	7.83mV	10.08mV	14.61mV	Pass
mV	7.78mV	10.39mV	14.92mV	Pass
mV	8.24mV	10.45mV	14.91mV	Pass
LmV	9.07mV	10.29mV	15.33mV	Pass
LmV	9.99mV	10.71mV	15.59mV	Pass
2mV	9.99mV	12.46mV	15.28mV	Pass
BmV	11.03mV	12.10mV	17.19mV	Pass
€mV	13.89mV	14.38mV	20.20mV	Pass
€mV	14.66mV	14.58mV	20.98mV	Pass
1mV	9.77mV	12.60mV	29.94mV	Pass
mV	10.67mV	10.60mV	27.05mV	Pass
mV	9.17mV	13.50mV	26.63mV	Pass
3mV	11.99mV	13.97mV	29.34mV	Pass
r L 2 3 9 7	NV mV mV mV mV mV mV mV mV mV	NV 8.24mV mV 9.07mV mV 9.99mV mV 9.99mV mV 11.03mV mV 13.89mV mV 9.77mV mV 9.77mV mV 9.77mV	NV 8.24mV 10.45mV mV 9.07mV 10.29mV mV 9.99mV 10.71mV mV 9.99mV 12.46mV mV 11.03mV 12.10mV mV 13.89mV 14.38mV mV 9.77mV 12.60mV mV 9.77mV 12.60mV mV 9.77mV 13.50mV	NV 8.24mV 10.45mV 14.91mV mV 9.07mV 10.29mV 15.33mV mV 9.99mV 10.71mV 15.59mV mV 9.99mV 12.46mV 15.28mV mV 11.03mV 12.10mV 17.19mV mV 13.89mV 14.38mV 20.20mV mV 9.77mV 12.60mV 29.94mV mV 10.67mV 10.60mV 27.05mV

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EFFICIENCY AND NOISE LEVEL CERTIFICATIONS

Super Flower Leadex VII XP 1000W

230V

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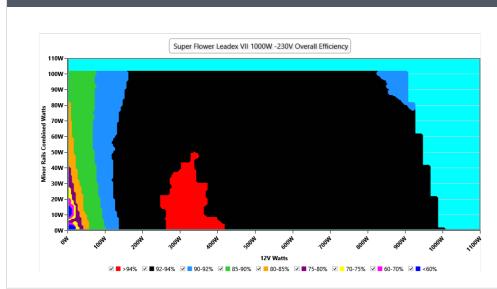
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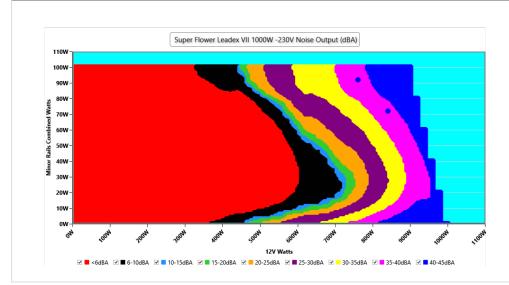
EFFICIENCY GRAPH 230V



INFO

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NOISE GRAPH 230V



INFO

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VAMPIRE POWER -230V

Detailed Results										
	Average	Min	Limit Min	Max	Limit Max	Result				
Mains Voltage RMS:	229.96 V	229.89 V	227.70 V	230.01 V	232.30 V	PASS				
Mains Frequency:	50.00 Hz	50.00 Hz	49.50 Hz	50.01 Hz	50.50 Hz	PASS				
Mains Voltage CF:	1.416	1.415	1.340	1.418	1.490	PASS				
Mains Voltage THD:	0.13 %	0.09 %	N/A	0.18 %	2.00 %	PASS				
Real Power:	0.105 W	0.059 W	N/A	0.162 W	N/A	N/A				
Apparent Power:	33.123 W	33.078 W	N/A	33.177 W	N/A	N/A				
Power Factor:	0.004	N/A	N/A	N/A	N/A	N/A				

INFO

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100/	6.496A	1.988A	1.972A	0.98A	99.978	90,6090/	0	<6.0	44.59°C	0.837
10%	12.065V	5.03V	3.346V	5.099V	111.573	89.608%	0	<0.0	40.31°C	229.93V
20%	14.018A	2.982A	2.96A	1.179A	199.919	92.98%	0	<6.0	45.36°C	0.926
2070	12.056V	5.031V	3.345V	5.089V	215.015	92.9070	0	<0.0	40.78°C	229.91V
200/	21.902A	3.477A	3.454A	1.378A	299.962	02 76/0/	0	~60	46.43°C	0.958
30%	12.050V	5.033V	3.343V	5.08V	319.911	93.764%	0	<6.0	41.4°C	229.9V
400/	29.748A	3.973A	3.948A	1.578A	399.521	02 6220/	368	-60	41.81°C	0.966
40%	12.045V	5.034V	3.343V	5.07V	426.729	93.623%	200	<6.0	47.29°C	229.88V
E00/	37.280A	4.966A	4.938A	1.779A	499.241	93.599%	450	60	42.46°C	0.972
50%	12.037V	5.034V	3.341V	5.06V	533.374	95.599%	452	6.9	48.47°C	229.86V
60%	44.888A	5.959A	5.928A	1.98A	599.773	93.362%	723	24.7	42.77°C	0.976
00 /0	12.029V	5.035V	3.34V	5.05V	642.429	95.50270	125		49.31°C	229.84V
70%	52.438A	6.953A	6.921A	2.182A	699.495	92.962%	1108	38.5	43.27°C	0.979
7070	12.021V	5.035V	3.338V	5.04V	752.456	92.90270	1100	20.2	50.31°C	229.83V
80%	60.045A	7.947A	7.913A	2.285A	799.519	92.589%	1253	43.1	43.83°C	0.982
00 /0	12.018V	5.034V	3.336V	5.032V	863.513	92.00970	1233	45.1	52.01°C	229.81V
90%	67.967A	8.442A	8.397A	2.388A	899.307	92.167%	1449	46.7	44.53°C	0.984
9070	12.018V	5.034V	3.334V	5.024V	975.741	92.107 %	1449	40.7	53.58°C	229.79V
100%	75.707A	8.938A	8.912A	2.996A	999.326	91.698%	1653	47.8	45.05°C	0.985
100 %	12.016V	5.035V	3.333V	5.007V	1089.81	91.09070	1033	47.0	55.15°C	229.78V
110%	83.388A	9.93A	9.997A	ЗA	1099.931	91.22%	1852	51.9	46.82°C	0.986
110%	12.012V	5.035V	3.331V	5V	1205.799	91.2270	2002	51.9	57.73°C	229.76V
CL1	0.116A	11.96A	11.856A	0A	101.295	84.861%	517	13.5	40.9°C	0.85
CLI	12.070V	5.033V	3.348V	5.108V	119.385	04.00170	517	12.2	46.38°C	229.93V
CL2	0.115A	19.878A	0A	0A	101.369	84.151%	379	<6.0	40.04°C	0.852
	12.072V	5.03V	3.356V	5.111V	120.467	04.131%	579	<0.0	47.09°C	229.93V
0.2	0.114A	0A	19.735A	0A	67.381	70 5000/	722	25.2	42.25°C	0.789
CL3	12.069V	5.041V	3.344V	5.109V	85.805	78.529%	732	25.2	51.27°C	229.93V
	83.235A	0A	0A	0A	999.904	02 2000/	1514	46.9	45.04°C	0.985
CL4	12.013V	5.035V	3.335V	5.069V	1082.167	92.398%	1514	46.8	56.01°C	229.77V

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Anex

Super Flower Leadex VII XP 1000W

20-80W LOAD TESTS 230V										
Test	12V	5V	3.3V	5VSB	DC/AC (Watts)	Efficiency	Fan Speed (RPM)	PSU Noise (dB[A])	Temps (In/Out)	PF/AC Volts
2014/	1.230A	0.497A	0.493A	0.195A	19.988		70.355% 0	<6.0	40.04°C	0.475
20W	12.072V	5.026V	3.346V	5.12V	28.506	/0.355%			36.92°C	229.96V
40147	2.708A	0.696A	0.69A	0.293A	39.988	01.220/	0	<6.0	41.13°C	0.643
40W	12.071V	5.027V	3.346V	5.117V	49.226	81.23%	0		37.77°C	229.95V
C014/	4.186A	0.895A	0.887A	0.391A	59.988	06.0660/	_	<6.0	42.04°C	0.74
60W	12.069V	5.028V	3.346V	5.114V	69.702	86.066%	0		38.48°C	229.94V
00147	5.660A	1.094A	1.085A	0.489A	79.925	00 4110/	88.411% 0	<6.0	42.99°C	0.799
80W	12.067V	5.029V	3.346V	5.11V	90.405	88.411%			39.21°C	229.93V

RIPPLE MEASUREMENTS 230V

าV าV mV	5∨ 7.16mV 7.26mV	3.3V 10.96mV	5VSB 14.25mV	Pass/Fail Pass
۱V	-		14.25mV	Pass
	7.26mV	10.00 \		
m)/		10.96mV	14.40mV	Pass
IIIV	9.07mV	11.27mV	14.40mV	Pass
mV	9.02mV	12.41mV	15.28mV	Pass
mV	9.43mV	12.05mV	15.53mV	Pass
۱V	9.32mV	11.64mV	14.71mV	Pass
mV	9.94mV	11.64mV	16.36mV	Pass
mV	10.77mV	13.50mV	15.95mV	Pass
mV	11.69mV	12.36mV	16.57mV	Pass
mV	14.01mV	15.92mV	20.70mV	Pass
mV	14.92mV	16.00mV	21.41mV	Pass
mV	10.62mV	13.67mV	28.47mV	Pass
۱V	11.08mV	12.15mV	27.82mV	Pass
۱V	9.94mV	14.17mV	26.33mV	Pass
mV	12.68mV	15.66mV	29.19mV	Pass
r r r	nV V nV nV nV nV v v V	9.43mV 9.32mV NV 9.32mV nV 9.94mV nV 10.77mV nV 11.69mV nV 14.01mV nV 14.02mV nV 10.62mV nV 11.08mV	NV 9.43mV 12.05mV V 9.32mV 11.64mV nV 9.94mV 11.64mV nV 9.94mV 11.64mV nV 10.77mV 13.50mV nV 11.69mV 12.36mV nV 14.01mV 15.92mV nV 16.00mV 14.01mV nV 11.68mV 13.67mV nV 11.08mV 12.15mV	nV 9.43mV 12.05mV 15.53mV v 9.32mV 11.64mV 14.71mV nV 9.94mV 11.64mV 16.36mV nV 10.77mV 13.50mV 15.95mV nV 11.69mV 12.36mV 16.57mV nV 14.01mV 15.92mV 20.70mV nV 14.92mV 16.00mV 21.41mV nV 10.62mV 13.67mV 28.47mV v 11.08mV 12.15mV 26.33mV

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Anex

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