

Anex

Superframe SF-G850M

Lab ID#: SR85002059

Receipt Date: Aug 5, 2022

Test Date: Sep 7, 2022

Report: 22PS2059A

Report Date: Sep 7, 2022

DUT INFORMATION	
Brand	Superframe
Manufacturer (OEM)	Channel Well Technology
Series	
Model Number	
Serial Number	
DUT Notes	

DUT SPECIFICATIONS					
Rated Voltage (Vrms)	100-240				
Rated Current (Arms)	10				
Rated Frequency (Hz)	47-63				
Rated Power (W)	850				
Туре	ATX12V				
Cooling	135mm Fluid Dynamic Bearing Fan (HA13525H12SF-Z)				
Semi-Passive Operation	✓ (selectable)				
Cable Design	Fully Modular				

TEST EQUIPMENT	
Electronic Loads	Chroma 63601-5 x4 Chroma 63600-2 x2 63640-80-80 x20 63610-80-20 x2
AC Sources	Chroma 6530, Keysight AC6804B
Power Analyzers	N4L PPA1530 x2
Sound Analyzer	Bruel & Kjaer 2270 G4
Microphone	Bruel & Kjaer Type 4955-A
Data Loggers	Picoscope TC-08 x2, Labjack U3-HV x2
Tachometer	UNI-T UT372 x2
Digital Multimeter	Keysight U1273AX, Fluke 289, Keithley 2015 - THD
UPS	CyberPower OLS3000E 3kVA x2
Transformer	3kVA x2

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

115V	
Average Efficiency	87.968%
Efficiency With 10W (≤500W) or 2% (>500W)	57.748
Average Efficiency 5VSB	78.895%
Standby Power Consumption (W)	0.0185000
Average PF	0.989
Avg Noise Output	28.71 dB(A)
Efficiency Rating (ETA)	GOLD
Noise Rating (LAMBDA)	A-

230V	
Average Efficiency	90.110%
Average Efficiency 5VSB	78.012%
Standby Power Consumption (W)	0.0888000
Average PF	0.965
Avg Noise Output	28.74 dB(A)
Efficiency Rating (ETA)	GOLD
Noise Rating (LAMBDA)	A-

POWER SPECIFICATIONS						
Rail		3.3V	5V	12V	5VSB	-12V
Max. Power	Amps	22	22	70.8	3	0.3
	Watts	120		849.6	15	3.6
Total Max. Power (W)		850				

HOLD-UP TIME & POWER OK SIGNAL (230V)		
Hold-Up Time (ms)	15.4	
AC Loss to PWR_OK Hold Up Time (ms)	14.1	
PWR_OK Inactive to DC Loss Delay (ms)	1.3	

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CABLES AND CONNECTORS				
Modular Cables				
Description	Cable Count	Connector Count (Total)	Gauge	In Cable Capacitors
ATX connector 20+4 pin (600mm)	1	1	18AWG	No
4+4 pin EPS12V (700mm)	2	2	18AWG	No
6+2 pin PCIe (600mm+150mm)	2	4	18AWG	No
12+4 pin PCle (600mm) (450W)	1	1	16-24AWG	No
SATA (500mm+150mm+150mm)	3	9	18AWG	No
4-pin Molex (500mm+150mm+150mm+150mm) / FDD (+150mm)	1	4/1	18-20AWG	No

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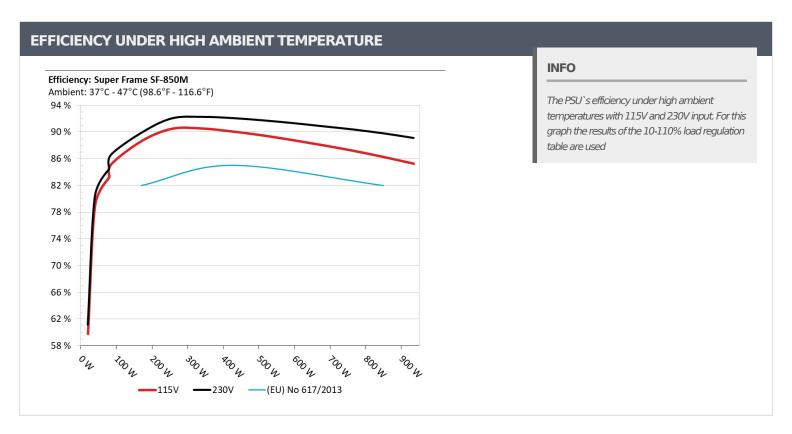
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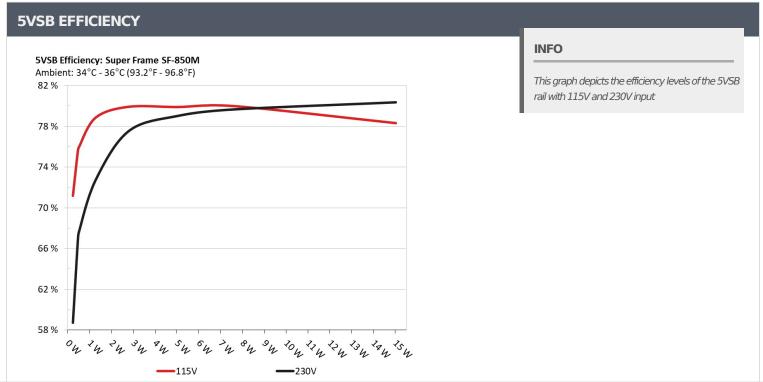
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5VSB EFFI	CIENCY -115V (ERF	P LOT 3/6 & CEC)		
Test #	5VSB	DC/AC (Watts)	Efficiency	PF/AC Volts
1	0.045A	0.229W	70,0000/	0.032
1	5.076V	0.324W	70.692%	114.93V
2	0.09A	0.457W	75.1050/	0.059
2	5.075V	0.609W	75.105%	114.93V
2	0.55A	2.786W	70.4200/	0.266
3	5.065V	3.507W	79.438%	114.93V
4	1A	5.055W	70.41.40/	0.358
4	5.054V	6.366W	79.414%	114.93V
_	1.5A	7.565W	70.53.40/	0.419
5	5.043V	9.514W	79.514%	114.93V
6	3A	15.028W	77.0240/	0.497
6	5.009V	19.308W	77.834%	114.93V

5VSB EFFIC	IENCY -230V (ERF	P LOT 3/6 & CEC)		
Test #	5VSB	DC/AC (Watts)	Efficiency	PF/AC Volts
1	0.045A	0.229W	50.2150/	0.011
L	5.075V	0.394W	58.215%	229.9V
2	0.09A	0.457W	CC 2400/	0.02
	5.075V	0.689W	66.348%	229.9V
	0.55A	2.786W		0.1
3	5.065V	3.616W	77.049%	229.9V
	1A	5.055W	70.550/	0.167
ļ	5.055V	6.436W	78.55%	229.9V
_	1.5A	7.565W	70.1750/	0.22
5	5.043V	9.555W	79.175%	229.89V
	3.001A	15.028W	70.0770/	0.327
6	5.009V	18.815W	79.877%	229.89V

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115V

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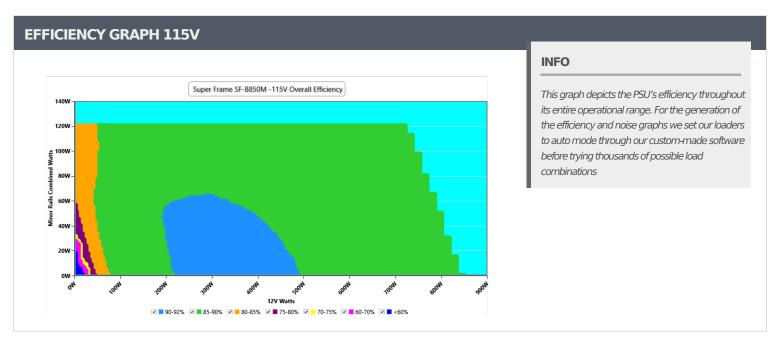
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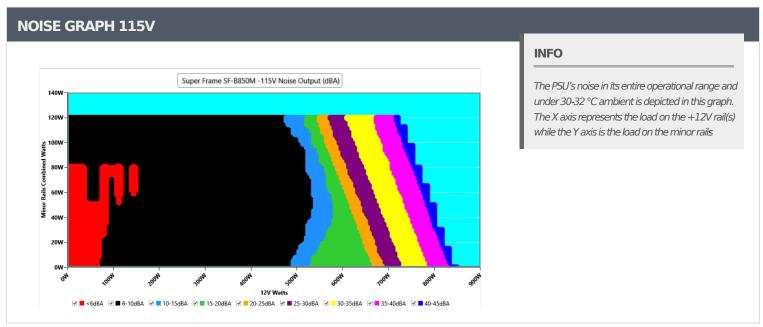
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VAMPIRE POWER -115V							
	Detailed Results						
	Average	Min	Limit Min	Max	Limit Max	Result	
Mains Voltage RMS:	114.93 V	114.89 V	113.85 V	114.96 V	116.15 V	PASS	
Mains Frequency:	60.00 Hz	59.99 Hz	59.40 Hz	60.02 Hz	60.60 Hz	PASS	
Mains Voltage CF:	1.417	1.416	1.340	1.418	1.490	PASS	
Mains Voltage THD:	0.14 %	0.12 %	N/A	0.19 %	2.00 %	PASS	
Real Power:	0.019 W	0.017 W	N/A	0.020 W	N/A	N/A	
Apparent Power:	10.213 W	10.191 W	N/A	10.233 W	N/A	N/A	
Power Factor:	0.002	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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Test	12V	5V	3.3V	5VSB	DC/AC (Watts)	Efficiency	Fan Speed (RPM)	PSU Noise (dB[A])	Temps (In/Out)	PF/AC Volts
100/	5.252A	1.977A	2.011A	0.992A	85.007	85.149%			44.82°C	0.974
10%	12.073V	5.059V	3.282V	5.043V	99.834		0	<6.0	40.54°C	114.92
200/	11.520A	2.966A	3.021A	1.193A	169.955	00.6320/	0	-6.0	45.53°C	0.987
20%	12.070V	5.057V	3.276V	5.031V	191.777	88.623%	0	<6.0	40.81°C	114.9V
2007	18.139A	3.461A	3.529A	1.372A	254.967	00 4710/	0	.00	46.42°C	0.99
30%	12.069V	5.056V	3.273V	5.101V	281.823	90.471%	0	<6.0	41.38°C	114.87
400/	24.800A	3.957A	4.038A	1.57A	340.063	00 5220/	0	-6.0	47.38°C	0.991
40%	12.051V	5.054V	3.269V	5.095V	375.671	90.523%		<6.0	41.79°C	114.86
E00/	31.090A	4.949A	5.057A	1.77A	425.037	00.0760/	407	7.6	42.23°C	0.99
50%	12.047V	5.052V	3.262V	5.085V	471.867	90.076%	407	7.6	48.17°C	114.83
C00/	37.347A	5.941A	6.08A	1.971A	509.559	00.4070/	619	16.7	42.54°C	0.992
60%	12.043V	5.05V	3.257V	5.075V	569.361	89.497%		16.7	48.86°C	114.81
700/	43.676A	6.934A	7.106A	2.173A	594.869	88.781%	758	22.2	43.04°C	0.993
70%	12.038V	5.048V	3.251V	5.064V	670.042			23.3	50.41°C	114.78
000/	50.022A	7.928A	8.135A	2.275A	679.715	00.0100/	072	21.2	44.37°C	0.994
80%	12.031V	5.047V	3.245V	5.056V	772.251	88.018%	972	31.2	52.57°C	114.77
000/	56.767A	8.426A	8.639A	2.378A	765.129	07.1070/	1242	20.7	44.68°C	0.995
90%	12.025V	5.045V	3.241V	5.047V	877.579	87.187%	1243	38.7	54.03°C	114.73
1000/	63.255A	8.926A	9.177A	2.984A	849.956	06.2500/	1500	44.7	45.31°C	0.995
100%	12.019V	5.043V	3.236V	5.027V	985.359	86.259%	1560	44.7	55.34°C	114.71
1100/	69.618A	9.921A	10.309A	2.989A	934.53	05.2020/	1070	F0.0	47.29°C	0.996
110%	12.012V	5.041V	3.23V	5.02V	1096.047	85.263%	1872	50.0	58.19°C	114.69
CL 1	0.116A	14.273A	14.706A	0A	121.317	02.4050/	440	0.2	42.47°C	0.983
CL1	12.079V	5.06V	3.243V	5.05V	147.076	82.485%	440	8.2	48.94°C	114.89
CI 2	0.116A	21.67A	0A	0A	111.422	01.4000/	400	7.6	43.39°C	0.982
CL2	12.087V	5.078V	3.296V	5.058V	136.733	81.489%	408	7.6	50.79°C	114.9V
CI 2	0.116A	0A	22.527A	0A	73.985	74.70/	400	7.0	44.72°C	0.974
CL3	12.084V	5.064V	3.222V	5.053V	99.045	74.7%	408	7.6	53.01°C	114.91
CL 4	70.724A	0A	0A	0A	849.614	07.20/	1226	40.6	45.99°C	0.995
CL4	12.014V	5.059V	3.275V	5.105V	974.341	87.2%	1326		55.89°C	114.71

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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
20144	1.230A	0.493A	0.501A	0.197A	20.005	F0.7000/	0	<6.0	40.43°C	0.911
20W	12.073V	5.074V	3.295V	5.067V	33.462	59.786%	0		37.38°C	114.92V
40\4	2.708A	0.69A	0.701A	0.296A	40.005	79.038%	0	<6.0	41.48°C	0.949
40W	12.071V	5.073V	3.294V	5.063V	50.617				38.12°C	114.91V
COM	4.186A	0.889A	0.903A	0.395A	60.004	02.2420/	0	<6.0	42.39°C	0.962
60W	12.071V	5.063V	3.288V	5.06V	72.086	83.243%	0		38.67°C	114.92V
00144	5.660A	1.087A	1.105A	0.495A	79.958		0	<6.0	43.05°C	0.972
80W	12.072V	5.06V	3.286V	5.056V	93.46	85.556%	0		39.09°C	114.92V

RIPPLE MEAS	SUREMENTS 115V				
Test	12V	5V	3.3V	5VSB	Pass/Fail
10% Load	5.73mV	5.72mV	5.83mV	4.76mV	Pass
20% Load	6.09mV	6.79mV	6.13mV	4.91mV	Pass
30% Load	14.81mV	7.20mV	6.65mV	5.07mV	Pass
40% Load	16.96mV	8.73mV	7.00mV	5.12mV	Pass
50% Load	17.93mV	7.91mV	7.36mV	5.99mV	Pass
60% Load	18.44mV	7.86mV	7.42mV	8.34mV	Pass
70% Load	18.91mV	10.42mV	12.99mV	6.91mV	Pass
80% Load	19.01mV	8.89mV	9.46mV	7.63mV	Pass
90% Load	19.36mV	9.29mV	10.07mV	8.19mV	Pass
100% Load	26.76mV	11.17mV	10.68mV	9.90mV	Pass
110% Load	26.93mV	11.89mV	10.86mV	10.92mV	Pass
Crossload1	12.79mV	10.14mV	10.50mV	9.76mV	Pass
Crossload2	9.67mV	12.51mV	7.26mV	9.62mV	Pass
Crossload3	6.34mV	6.38mV	11.91mV	9.57mV	Pass
Crossload4	17.45mV	9.53mV	8.47mV	12.00mV	Pass

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Anex

Superframe SF-G850M

230V

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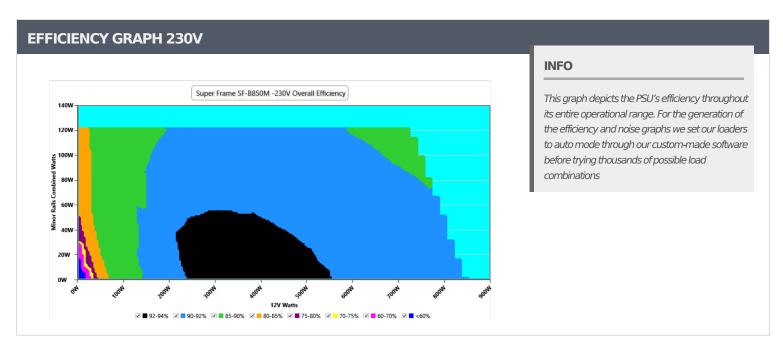
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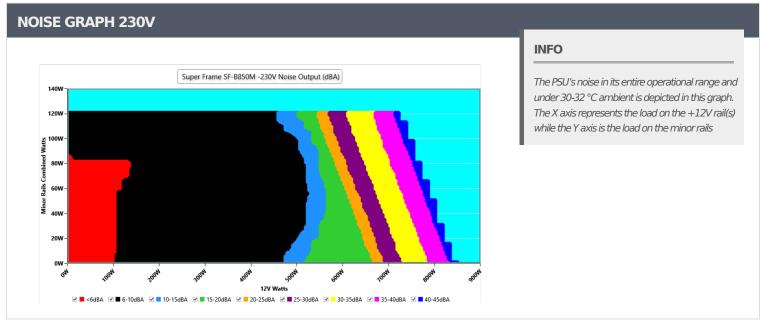
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VAMPIRE POWER -230V											
Detailed Results											
	Average	Min	Limit Min	Max	Limit Max	Result					
Mains Voltage RMS:	229.88 V	229.85 V	227.70 V	229.93 V	232.30 V	PASS					
Mains Frequency:	50.00 Hz	50.00 Hz	49.50 Hz	50.00 Hz	50.50 Hz	PASS					
Mains Voltage CF:	1.416	1.415	1.340	1.417	1.490	PASS					
Mains Voltage THD:	0.15 %	0.13 %	N/A	0.17 %	2.00 %	PASS					
Real Power:	0.089 W	0.077 W	N/A	0.106 W	N/A	N/A					
Apparent Power:	34.505 W	34.480 W	N/A	34.532 W	N/A	N/A					
Power Factor:	0.002	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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Test	12V	5V	3.3V	5VSB	DC/AC (Watts)	Efficiency	Fan Speed (RPM)	PSU Noise (dB[A])	Temps (In/Out)	PF/AC Volts
100/	5.250A	1.977A	2.01A	0.992A	85.009	86.576%	0	-C.O	44.84°C	0.87
10%	12.078V	5.059V	3.284V	5.042V	98.19		0	<6.0	40.6°C	229.88
200/	11.518A	2.966A	3.02A	1.193A	169.958	00.0620/	0	-6.0	45.61°C	0.943
20%	12.074V	5.057V	3.278V	5.031V	189.127	89.863%	0	<6.0	40.79°C	229.87
2007	18.135A	3.462A	3.528A	1.372A	254.972	02.0220/	0	.6.0	46.25°C	0.965
30%	12.072V	5.055V	3.274V	5.101V	277.076	92.022%	0	<6.0	40.98°C	229.86
400/	24.796A	3.958A	4.037A	1.57A	340.08	02.2500/	0	.6.0	47.39°C	0.974
40%	12.053V	5.054V	3.27V	5.095V	368.618	92.258%		<6.0	41.75°C	229.85
E00/	31.092A	4.95A	5.056A	1.77A	425.091	02.0010/	408	7.6	42.38°C	0.98
50%	12.047V	5.051V	3.264V	5.085V	461.647	92.081%		7.6	48.41°C	229.84
CO0/	37.354A	5.943A	6.078A	1.971A	509.615	01.7470/	611	12.2	43.02°C	0.983
60%	12.042V	5.049V	3.258V	5.074V	555.452	91.747%		12.3	49.53°C	229.83
700/	43.690A	6.936A	7.103A	2.173A	594.921	91.336%	819	26	43.49°C	0.985
70%	12.035V	5.048V	3.252V	5.064V	651.359				50.58°C	229.82
000/	50.037A	7.93A	8.13A	2.275A	679.761	00.0570/	004	21.7	44.06°C	0.986
80%	12.028V	5.046V	3.247V	5.055V	748.168	90.857%	984	31.7	52.11°C	229.81
000/	56.791A	8.429A	8.635A	2.378A	765.168	00.2710/	1011	27.7	44.45°C	0.988
90%	12.020V	5.044V	3.242V	5.047V	846.69	90.371%	1211	37.7	53.46°C	229.8V
1000/	63.288A	8.928A	9.173A	2.985A	849.993	00.7000/	1404	42.5	45.01°C	0.989
100%	12.013V	5.042V	3.238V	5.027V	946.584	89.796%	1494	43.5	55.04°C	229.79
1100/	69.658A	9.925A	10.305A	2.989A	934.567	00.1010/	1074	F0.0	47.04°C	0.989
110%	12.006V	5.04V	3.231V	5.02V	1048.894	89.101%	1874	50.0	57.91°C	229.78
CL 1	0.116A	14.276A	14.695A	0A	121.324	02.7020/	420	0.2	42.61°C	0.922
CL1	12.078V	5.059V	3.246V	5.05V	144.809	83.782%	439	8.2	48.03°C	229.88
CI 2	0.116A	21.668A	0A	0A	111.428	02 5670/	420	0.2	43.73°C	0.915
CL2	12.089V	5.078V	3.296V	5.058V	134.949	82.567%	439	8.2	50.03°C	229.88
CI 2	0.116A	0A	22.5A	0A	73.988	7E 0000/	400	7.6	44.49°C	0.871
CL3	12.087V	5.063V	3.226V	5.052V	97.497	75.886%	408	7.6	52.61°C	229.88
CL 4	70.713A	0A	0A	0A	849.652	00.0020/	1250	41.0	45.72°C	0.989
CL4	12.016V	5.059V	3.275V	5.105V	937.771	90.603%	1359		55.7°C	229.79

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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	0.493A	0.5A	0.197A	20.004	61.163%	0		40.49°C	0.609
20W	12.078V	5.074V	3.297V	5.067V	32.706		0	<6.0	37.42°C	229.89V
40)44	2.708A	0.69A	0.701A	0.296A	40.005			6.0	40.5°C	0.722
40W	12.076V 5.073V 3.296V 5.063V 49	49.774	80.375%	0	<6.0	37.2°C	229.88V			
6014	4.184A	0.889A	0.903A	0.395A	60.004	04.400/	•	0 <6.0	41.37°C	0.813
60W	12.076V	5.063V	3.289V	5.059V	71.029	84.48%	0		37.81°C	229.89V
00144	5.658A	1.087A	1.104A	0.495A	79.959	86.967%	•		42.52°C	0.859
80W	12.076V	5.06V	3.287V	5.055V	91.941		0	<6.0	38.71°C	229.89V

SUREMENTS 230V	_			
12V	5V	3.3V	5VSB	Pass/Fail
5.53mV	5.77mV	5.52mV	5.17mV	Pass
6.34mV	6.84mV	6.24mV	5.32mV	Pass
17.98mV	6.84mV	6.09mV	5.53mV	Pass
17.37mV	8.22mV	6.65mV	5.53mV	Pass
17.06mV	7.51mV	6.80mV	6.09mV	Pass
17.22mV	7.86mV	7.67mV	5.94mV	Pass
18.04mV	10.62mV	12.73mV	6.86mV	Pass
18.75mV	8.89mV	10.23mV	7.21mV	Pass
19.47mV	9.20mV	9.67mV	7.78mV	Pass
27.99mV	10.65mV	10.35mV	9.26mV	Pass
29.52mV	11.30mV	10.78mV	10.13mV	Pass
12.62mV	10.82mV	9.90mV	9.60mV	Pass
8.75mV	12.05mV	6.39mV	9.72mV	Pass
6.14mV	5.87mV	11.87mV	9.21mV	Pass
18.25mV	9.13mV	8.56mV	11.25mV	Pass
	12V 5.53mV 6.34mV 17.98mV 17.37mV 17.06mV 17.22mV 18.04mV 18.75mV 19.47mV 27.99mV 29.52mV 12.62mV 8.75mV 6.14mV	5.53mV 5.77mV 6.34mV 6.84mV 17.98mV 6.84mV 17.37mV 8.22mV 17.06mV 7.51mV 17.22mV 7.86mV 18.04mV 10.62mV 18.75mV 8.89mV 19.47mV 9.20mV 27.99mV 10.65mV 29.52mV 11.30mV 12.62mV 10.82mV 8.75mV 5.87mV	12V 5V 3.3V 5.53mV 5.77mV 5.52mV 6.34mV 6.84mV 6.24mV 17.98mV 6.84mV 6.09mV 17.37mV 8.22mV 6.65mV 17.06mV 7.51mV 6.80mV 17.22mV 7.86mV 7.67mV 18.04mV 10.62mV 12.73mV 18.75mV 8.89mV 10.23mV 19.47mV 9.20mV 9.67mV 27.99mV 10.65mV 10.35mV 29.52mV 11.30mV 10.78mV 12.62mV 9.90mV 8.75mV 12.05mV 6.39mV 6.14mV 5.87mV 11.87mV	12V 5V 3.3V 5VSB 5.53mV 5.77mV 5.52mV 5.17mV 6.34mV 6.84mV 6.24mV 5.32mV 17.98mV 6.84mV 6.09mV 5.53mV 17.37mV 8.22mV 6.65mV 5.53mV 17.06mV 7.51mV 6.80mV 6.09mV 17.22mV 7.86mV 7.67mV 5.94mV 18.04mV 10.62mV 12.73mV 6.86mV 18.75mV 8.89mV 10.23mV 7.21mV 19.47mV 9.20mV 9.67mV 7.78mV 27.99mV 10.65mV 10.35mV 9.26mV 29.52mV 11.30mV 10.78mV 10.13mV 12.62mV 10.82mV 9.90mV 9.60mV 8.75mV 12.05mV 6.39mV 9.72mV 6.14mV 5.87mV 11.87mV 9.21mV

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> The link to the original test results document should be provided in any case



Anex

Superframe SF-G850M









Aristeidis BitziopoulosLab Director

CERTIFICATIONS 230V





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