

Anex Lian Li SP850

Lab ID#: LL85002081 Receipt Date: Jul 24, 2022 Test Date: Oct 27, 2022

Report: 22PS2081A

Report Date: Oct 27, 2022

DUT INFORMATI	ON
Brand	Lian Li
Manufacturer (OEM)	Helly Technology
Series	SP
Model Number	SP850
Serial Number	G89SP850BY220700290
DUT Notes	

DUT SPECIFICATION	NS
Rated Voltage (Vrms)	100-240
Rated Current (Arms)	10
Rated Frequency (Hz)	60-50
Rated Power (W)	850
Type	SFX
Cooling	92mm Double Ball Bearing Fan (D92LH-12B)
Semi-Passive Operation	✓
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	/
(EU) No 617/2013 Compliance	/

115V	
Average Efficiency	89.825%
Efficiency With 10W (≤500W) or 2% (>500W)	72.506
Average Efficiency 5VSB	82.273%
Standby Power Consumption (W)	0.0551000
Average PF	0.992
Avg Noise Output	37.16 dB(A)
Efficiency Rating (ETA)	PLATINUM
Noise Rating (LAMBDA)	Standard+

230V	
Average Efficiency	91.870%
Average Efficiency 5VSB	80.895%
Standby Power Consumption (W)	0.0995000
Average PF	0.970
Avg Noise Output	37.21 dB(A)
Efficiency Rating (ETA)	PLATINUM
Noise Rating (LAMBDA)	Standard+

POWER SPECIFICATIONS						
Rail		3.3V	5V	12V	5VSB	-12V
Mary Danier	Amps	20	20	70	2.5	0.3
Max. Power	Watts	100		840	12.5	3.6
Total Max. Power (W)		850				

HOLD-UP TIME & POWER OK SIGNAL (230V)	
Hold-Up Time (ms)	16.5
AC Loss to PWR_OK Hold Up Time (ms)	14.9
PWR_OK Inactive to DC Loss Delay (ms)	1.6

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CABLES AND CONNECTORS				
Modular Cables Description	California di	Consider Constitution	<u> </u>	La Calala Cara d'Iran
Description	Cable Count	Connector Count (Total)	Gauge	In Cable Capacitors
ATX connector 20+4 pin (300mm)	1	1	16-20AWG	No
4+4 pin EPS12V (600mm)	2	2	16AWG	No
6+2 pin PCle (400mm+125mm)	1	2	18AWG	No
6+2 pin PCle (400mm)	1	1	18AWG	No
12 pin PCle (400mm)	1	1	16AWG	No
SATA (120mm+120mm+120mm+120mm)	2	8	18AWG	No
4-pin Molex (120mm+120mm+120mm+120mm)	1	4	18AWG	No
AC Power Cord (1390mm) - C13 coupler	1	1	18AWG	-

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General Data	-
Manufacturer (OEM)	Helly
PCB Type	Double Sided
Primary Side	-
Transient Filter	2x Y caps, 2x SMD-Y caps, 2x X caps, 2x CM chokes, 1x MOV
Inrush Protection	NTC Thermistor 10D-11 (10 Ohm) & 1x Sanrise Tech SRC60R075BS (600V, 21.5A @ 125°C, Rds(on): 0.075Ohm)
Bridge Rectifier(s)	2x
APFC MOSFETs	2x Oriental Semiconductor (600V, 22.8A @ 100°C, Rds(on): 0.099Ohm)
APFC Boost Diode	1x G3S06510A (650V, 10A)
Bulk Cap(s)	1x Rubycon (420V, 550uF, 3,000h @ 105°C, MXK)
Main Switchers	2x
APFC Controller	Champion CM6502UHHX
Resonant Controller	Champion CM6901T6X
Topology	Primary side: APFC, Half-Bridge & LLC converter Secondary side: Synchronous Rectification & DC-DC converters
Secondary Side	
+12V MOSFETs	6x G013N04G
5V & 3.3V	DC-DC Converters: 4x 3NA3R4 PWM Controller(s): ANPEC APW7159C
Filtering Capacitors	Electrolytic: 2x Nippon Chemi-Con (4-10,000h @ 105°C, KY), 1x Rubycon (4-10,000h @ 105°C, YXJ) Polymer: 22x no info
Supervisor IC	Grenergy GR8313 (OVP, UVP, PG)
Fan Model	Yate Loon D92LH-12B (92mm, 12V, 0.60A, Double Ball Bearing Fan)
5VSB Circuit	-
Rectifier	1x 45R20S
Standby PWM Controller	Excelliance MOS EM8569C

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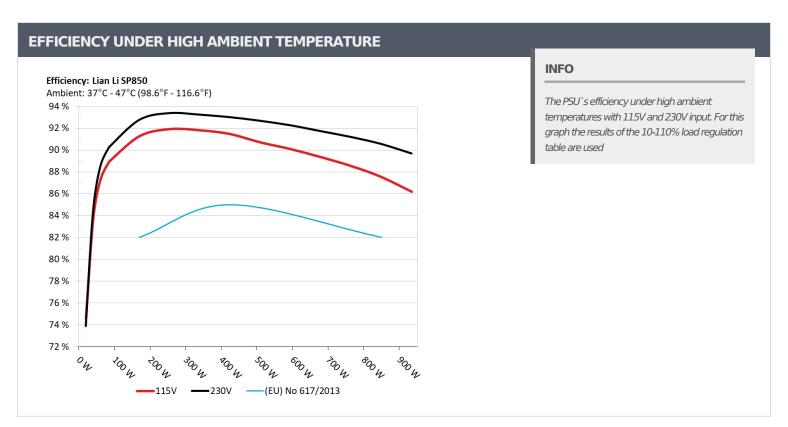
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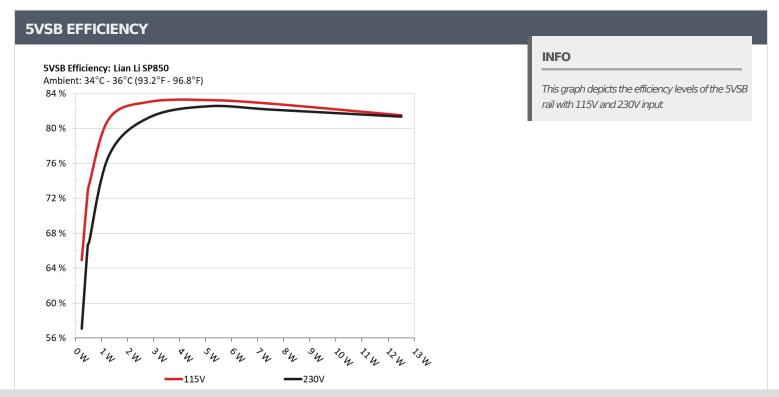
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5VSB EFFICIENCY -115V (ERP LOT 3/6 & CEC)				
Test #	5VSB	DC/AC (Watts)	Efficiency	PF/AC Volts
1	0.041A	0.211	CO OF 40/	0.030
1	5.107V	0.306	68.954%	115.20V
2	0.087A	0.442	75 (050/	0.058
2	5.107V	0.584	75.685%	115.20V
2	0.541A	2.759	70.0350/	0.265
3	5.096V	3.452	79.925%	115.18V
	1.001A	5.091	77.0020/	0.371
4	5.085V	6.536	77.892%	115.18V
_	1.501A	7.613	77 6000/	0.427
5	5.072V	9.799	77.692%	115.18V
	2.500A	12.617	75 2700/	0.482
6	5.046V	16.740	75.370%	115.19V

5VSB EFFICIENCY -230V (ERP LOT 3/6 & CEC)				
Test #	5VSB	DC/AC (Watts)	Efficiency	PF/AC Volts
1	0.041A	0.212	62.4720/	0.010
1	5.108V	0.334	63.473%	230.40V
2	0.087A	0.444	77.0500/	0.019
2	5.107V	0.623	71.268%	230.40V
2	0.542A	2.760	76 7010/	0.102
3	5.096V	3.597	76.731%	230.43V
	1.002A	5.093	70.0040/	0.172
4	5.085V	6.505	78.294%	230.43V
_	1.501A	7.614	70.2010/	0.232
5	5.071V	9.724	78.301%	230.42V
	2.501A	12.620	70.1069/	0.314
6	5.046V	16.141	78.186%	230.41V

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115V

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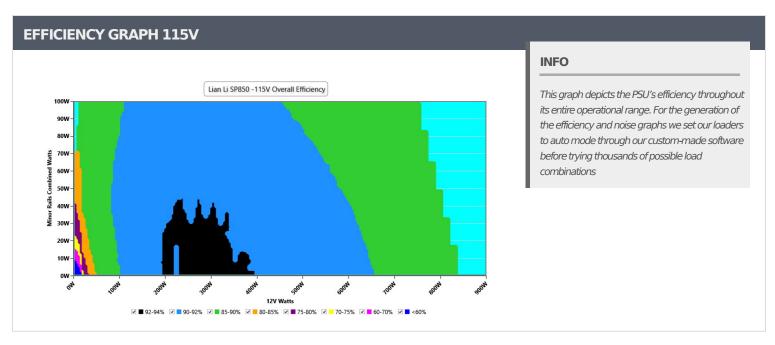
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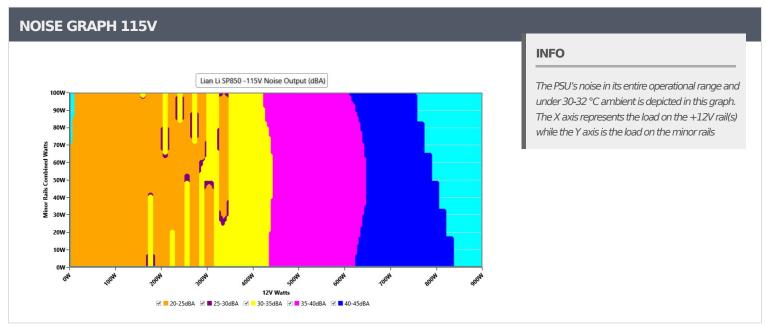
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VAMPIRE POWER -115V											
Detailed Results											
	Average	Min	Limit Min	Max	Limit Max	Result					
Mains Voltage RMS:	115.14 V	115.12 V	113.85 V	115.19 V	116.15 V	PASS					
Mains Frequency:	60.00 Hz	59.96 Hz	59.40 Hz	60.03 Hz	60.60 Hz	PASS					
Mains Voltage CF:	1.416	1.415	1.340	1.418	1.490	PASS					
Mains Voltage THD:	0.13 %	0.10 %	N/A	0.19 %	2.00 %	PASS					
Real Power:	0.055 W	-0.003 W	N/A	0.088 W	N/A	N/A					
Apparent Power:	6.355 W	6.205 W	N/A	6.507 W	N/A	N/A					
Power Factor:	0.013	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/	5.264A	1.971A	1.953A	0.982A	84.988	00.0000/	0	-00	44.66°C	0.985
10%	12.042V	5.074V	3.379V	5.091V	95.697	88.809%	0	<6.0	40.44°C	115.16
200/	11.552A	2.961A	2.936A	1.182A	169.906	01.2400/	0	-6.0	45.62°C	0.991
20%	12.034V	5.065V	3.371V	5.074V	186.2	91.248%	0	<6.0	41.01°C	115.14
2007	18.198A	3.459A	3.432A	1.384A	254.895	01.0010/	0		46.35°C	0.992
30%	12.026V	5.059V	3.365V	5.057V	277.356	91.901%	0	<6.0	41.28°C	115.11
400/	24.865A	3.964A	3.935A	1.588A	339.986	01.7050/	1000	22.0	41.52°C	0.994
40%	12.016V	5.045V	3.354V	5.038V	370.368	91.795%	1889	32.0	47.23°C	115.08
E00/	31.164A	4.963A	4.929A	1.793A	424.692	01.4520/	2054	34.0	42.88°C	0.995
50%	12.007V	5.038V	3.347V	5.02V	464.377	91.453%	2054		49.27°C	115.06
C00/	37.454A	5.964A	5.928A	1.999A	509.211	00.0040/	2205	27.0	43.05°C	0.996
60%	11.999V	5.031V	3.34V	5.002V	561.458	90.694%	2305	37.8	49.86°C	115.03
700/	43.821A	6.969A	6.933A	2.206A	594.525	00.000/	2526	40.8	43.39°C	0.996
70%	11.990V	5.022V	3.332V	4.983V	659.997	90.08%	2526		50.54°C	115V
000/	50.201A	7.979A	7.938A	2.312A	679.333	- 00 2470/	2702	42.4	43.67°C	0.997
80%	11.981V	5.014V	3.324V	4.971V	760.335	89.347%	2783	42.4	51.73°C	114.97
000/	56.986A	8.483A	8.434A	2.419A	764.732	— 00 F200/	2012	44.1	44.23°C	0.997
90%	11.972V	5.009V	3.318V	4.958V	863.835	88.528%	2913	44.1	53.33°C	114.93
1000/	63.715A	8.994A	8.965A	2.527A	849.467	87.53%	2919	44.2	45.05°C	0.998
100%	11.964V	5.002V	3.311V	4.945V	970.494	07.33%	2919	44.2	55.14°C	114.9V
1100/	70.188A	10.008A	10.075A	2.53A	934.851	- 06 1020/	2021	44.2	46.92°C	0.998
110%	11.955V	4.995V	3.304V	4.939V	1084.738	86.183%	2921	44.2	57.84°C	114.87
CI 1	0.115A	11.911A	11.812A	0A	101.26	04.766 0/	2/105	40.7	42.33°C	0.985
CL1	12.042V	5.053V	3.36V	5.144V	119.46	84.766%	2485	40.7	48.78°C	115.16
CL2	0.114A	19.759A	0A	0A	101.378	04 5250/	2125	25.5	43.29°C	0.988
ULZ	12.041V	5.061V	3.367V	5.148V	119.94	84.525%	2135	35.5	50.38°C	115.15
CI 2	0.114A	0A	19.595A	0A	67.362	80.303%	1072	22.2	44.52°C	0.981
CL3	12.039V	5.061V	3.367V	5.144V		33.3	52.58°C	115.17		
CL 4	70.967A	0A	0A	0.001A	849.346	00.2100/	2027	44.3	45.62°C	0.997
CL4	11.969V	5.028V	3.333V	5.114V	961.7	88.318%	2927		55.59°C	114.91

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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
2014/	1.232A	0.491A	0.487A	0.194A	19.984	74.6200/	•	<6.0	40.25°C	0.88
20W	12.048V	5.086V	3.389V	5.143V	26.773	74.638%	0		37.15°C	115.18V
40\44	2.712A	0.688A	0.682A	0.292A	39.986	02.6070/	_	<6.0	40.73°C	0.953
40W	12.046V	5.085V	3.388V	5.136V	47.826	83.607%	0		37.42°C	115.17V
COM	4.194A	0.885A	0.877A	0.39A	59.985	07.1000/	•	<6.0	42.63°C	0.975
60W	12.044V	5.08V	3.384V	5.129V	68.793	87.198%	0		38.85°C	115.17V
00144	5.672A	1.083A	1.073A	0.488A	79.925	00.0210/	0	<6.0	44.13°C	0.982
80W	12.043V	5.077V	3.382V	5.122V	89.873	88.931%	0		40.17°C	115.16V

RIPPLE MEA	SUREMENTS 115V				
Test	12V	5V	3.3V	5VSB	Pass/Fail
10% Load	34.98mV	9.66mV	9.30mV	45.74mV	Pass
20% Load	35.90mV	10.37mV	9.96mV	48.68mV	Pass
30% Load	36.81mV	11.13mV	9.10mV	46.75mV	Pass
40% Load	9.77mV	10.52mV	7.58mV	10.78mV	Pass
50% Load	12.15mV	11.69mV	8.95mV	11.64mV	Pass
60% Load	39.09mV	13.16mV	9.81mV	44.43mV	Pass
70% Load	15.29mV	13.82mV	9.50mV	13.71mV	Pass
80% Load	32.96mV	14.48mV	10.42mV	37.14mV	Pass
90% Load	38.22mV	15.25mV	11.32mV	45.94mV	Pass
100% Load	23.88mV	17.57mV	12.19mV	19.99mV	Pass
110% Load	26.38mV	18.29mV	12.05mV	20.38mV	Pass
Crossload1	10.96mV	15.51mV	10.47mV	37.42mV	Pass
Crossload2	11.41mV	17.64mV	8.70mV	39.07mV	Pass
Crossload3	10.55mV	12.82mV	11.08mV	37.12mV	Pass
Crossload4	24.51mV	14.54mV	10.25mV	42.45mV	Pass

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230V

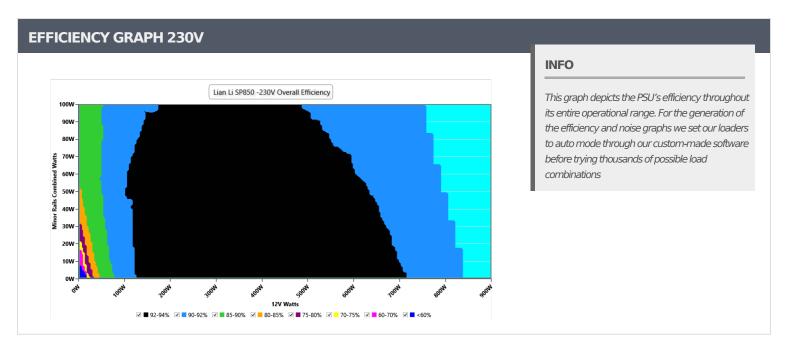
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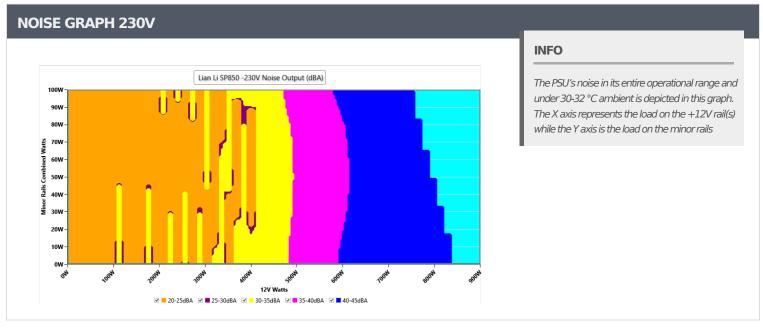
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VAMPIRE POWER -230V											
Detailed Results											
	Average	Min	Limit Min	Max	Limit Max	Result					
Mains Voltage RMS:	230.32 V	230.20 V	227.70 V	230.36 V	232.30 V	PASS					
Mains Frequency:	50.00 Hz	49.99 Hz	49.50 Hz	50.01 Hz	50.50 Hz	PASS					
Mains Voltage CF:	1.416	1.415	1.340	1.418	1.490	PASS					
Mains Voltage THD:	0.12 %	0.10 %	N/A	0.21 %	2.00 %	PASS					
Real Power:	0.100 W	0.072 W	N/A	0.135 W	N/A	N/A					
Apparent Power:	21.077 W	20.819 W	N/A	21.319 W	N/A	N/A					
Power Factor:	0.004	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	230V							
Test	12V	5V	3.3V	5VSB	DC/AC (Watts)	Efficiency	Fan Speed (RPM)	PSU Noise (dB[A])	Temps (In/Out)	PF/AC Volts
100/	5.264A	1.971A	1.953A	0.982A	84.989	00.00.40/			45.31°C	0.897
10%	12.043V	5.074V	3.379V	5.09V	94.408	90.024%	0	<6.0	40.93°C	230.37V
200/	11.552A	2.961A	2.936A	1.183A	169.92	02.7500/	0	.6.0	46.21°C	0.959
20%	12.034V	5.066V	3.372V	5.072V	183.184	92.759%	0	<6.0	41.57°C	230.36V
2007	18.199A	3.459A	3.432A	1.385A	254.914	02.2010/	0	.6.0	47.05°C	0.974
30%	12.026V	5.06V	3.365V	5.055V	272.983	93.381%	0	<6.0	41.76°C	230.35V
4007	24.867A	3.962A	3.933A	1.588A	339.996	02.2200/	1004	33.0	42.49°C	0.98
40%	12.016V	5.047V	3.356V	5.037V	364.65	93.239%	1964		48.28°C	230.34V
-00/	31.170A	4.963A	4.93A	1.794A	424.73	02.0120/	2005	24.2	42.73°C	0.983
50%	12.006V	5.038V	3.347V	5.018V	456.645	93.012%	2065	34.3	48.88°C	230.33V
	37.465A	5.966A	5.93A	2A	509.246	00.000/			43.17°C	0.985
50%	11.996V	5.029V	3.339V	5V	549.474	92.68%	2247	36.2	49.69°C	230.31V
700/	43.835A	6.971A	6.934A	2.208A	594.552	00.0670/		40.8	43.43°C	0.987
70%	11.987V	5.022V	3.331V	4.981V	644.368	92.267%	2515		50.45°C	230.3V
2007	50.213A	7.979A	7.937A	2.314A	679.364	01.7000/	2700	40.4	43.59°C	0.988
30%	11.979V	5.015V	3.324V	4.968V	740.584	91.733%	2788	42.4	51.66°C	230.29V
	57.007A	8.485A	8.436A	2.421A	764.759	0			44.78°C	0.988
90%	11.968V	5.007V	3.317V	4.956V	838.566	91.197%	2915	44.2	54.01°C	230.27V
	63.748A	8.995A	8.965A	2.528A	849.484	00.5500/	2016	440	44.93°C	0.989
100%	11.958V	5.002V	3.311V	4.943V	938.048	90.559%	2916	44.2	54.981°C	230.26V
	70.224A	10.009A	10.076A	2.532A	934.856				46.76°C	0.99
110%	11.949V	4.994V	3.303V	4.936V	1042.344	89.689%	2921	44.2	57.61°C	230.25V
Cl 1	0.115A	11.923A	11.821A	0A	101.262	00.450/	0170	25.0	42.12°C	0.924
CL1	12.038V	5.048V	3.357V	5.143V	117.187	86.41%	2179	35.9	48.61°C	230.37V
OI O	0.114A	19.775A	0A	0A	101.379	00.0000/	1000	21.0	43.86°C	0.924
CL2	12.036V	5.057V	3.365V	5.146V	117.747	86.098%	1880	31.9	51.08°C	230.37V
o. o	0.114A	0A	19.598A	0A	67.361				44.42°C	0.875
CL3	12.037V	5.06V	3.367V	5.143V	82.552	81.598%	1894	32.0	52.48°C	230.37V
	71.021A	0A	0A	0.001A	849.338				45.05°C	0.989
CL4	11.959V	5.028V	3.333V	5.113V	931.274	91.204%	2929	44.3	55.03°C	230.26V
						_				

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Anex Lian Li SP850

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	1.231A	0.491A	0.487A	0.194A	19.988	72.0000/	0	<6.0	39.75°C	0.55
20W	12.057V	5.087V	3.39V	5.142V	27.054	73.889%			36.67°C	230.37V
40\44	2.715A	0.688A	0.682A	0.292A	39.988	04.2200/	_	<6.0	41.29°C	0.737
40W	12.037V	5.085V	3.388V	5.135V	47.477	84.229%	0		37.97°C	230.38V
60)44	4.196A	0.885A	0.877A	0.39A	59.986	00.4020/	0		42.04°C	0.835
60W	12.041V 5.082V 3.385V 5.128V 67.856	67.856	88.402%	0	<6.0	38.51°C	230.37V			
00144	5.672A	1.083A	1.073A	0.488A	79.934	00.2570/	0		43.35°C	0.887
80W	12.044V	5.078V	3.382V	5.121V	88.564	90.257%	0	<6.0	39.55°C	230.37V

RIPPLE MEASURE	MENTS 230V				
Test	12V	5V	3.3V	5VSB	Pass/Fail
10% Load	36.10mV	11.33mV	7.23mV	45.04mV	Pass
20% Load	7.85mV	10.01mV	7.48mV	9.46mV	Pass
30% Load	9.97mV	10.77mV	7.79mV	10.63mV	Pass
40% Load	10.83mV	10.82mV	8.19mV	11.23mV	Pass
50% Load	32.30mV	12.35mV	8.44mV	39.47mV	Pass
60% Load	33.62mV	12.60mV	8.59mV	40.28mV	Pass
70% Load	36.66mV	13.47mV	9.15mV	44.02mV	Pass
80% Load	36.30mV	14.58mV	10.36mV	44.18mV	Pass
90% Load	17.11mV	15.65mV	11.02mV	15.49mV	Pass
100% Load	23.95mV	16.93mV	11.36mV	18.48mV	Pass
110% Load	25.68mV	17.85mV	12.98mV	19.86mV	Pass
Crossload1	13.63mV	15.50mV	10.60mV	37.90mV	Pass
Crossload2	13.75mV	17.93mV	8.45mV	39.15mV	Pass
Crossload3	8.25mV	11.08mV	10.46mV	37.39mV	Pass
Crossload4	23.71mV	16.51mV	13.01mV	42.80mV	Pass

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Anex Lian Li SP850





CERTIFICATIONS 115V





CERTIFICATIONS 230V





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