

## EFFICIENCY AND NOISE LEVEL CERTIFICATIONS

#### Lian Li SP750

Lab ID#: LL75001861 Receipt Date: Jun 8, 2021 Test Date: Jun 18, 2021

#### Report: 21PS1861A

Report Date: Jun 22, 2021

DUT INFORMATION
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Brand	Lian Li
Manufacturer (OEM)	Helly Technology
Series	
Model Number	SP750
Serial Number	G89SP750BY210501444
DUT Notes	

DUT SPECIFICATIONS				
Rated Voltage (Vrms)	100-240			
Rated Current (Arms)	10			
Rated Frequency (Hz)	50-60			
Rated Power (W)	750			
Туре	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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## EFFICIENCY AND NOISE LEVEL CERTIFICATIONS

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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	1

115V		230V		
Average Efficiency	89.769%	Average Efficiency	91.327%	
Efficiency With 10W (≤500W) or 2% (>500W)	69.159	Average Efficiency 5VSB	81.382%	
Average Efficiency 5VSB	83.062%	Standby Power Consumption (W)	0.0859174	
Standby Power Consumption (W)	0.0651919	Average PF	0.947	
Average PF	0.983	Avg Noise Output	38.41 dB(A)	
Avg Noise Output	38.96 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	62	2.5	0.3
	Watts	100		744	12.5	3.6
Total Max. Power (W)		750				

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

Hold-Up Time (ms)	12.5
AC Loss to PWR_OK Hold Up Time (ms)	10.9
PWR_OK Inactive to DC Loss Delay (ms)	1.6

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#### Anex

#### Lian Li SP750

#### **CABLES AND CONNECTORS**

Modular Cables				
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 (450mm+70mm)	1	2	18AWG	No
6+2 pin PCle (400mm+125mm)	1	2	18AWG	No
6+2 pin PCle (400mm)	1	1	18AWG	No
SATA (115mm+120mm+120mm+120mm)	2	8	18AWG	No
4-pin Molex (120mm+120mm+120mm+120mm)	1	4	18AWG	No
AC Power Cord (1380mm) - C13 coupler	1	1	18AWG	-

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Conoral Data	
General Data	
Manufacturer (OEM)	Helly Technology
РСВ Туре	Double Sided
Primary Side	
Transient Filter	2x Y caps, 1x SMD-Y cap, 2x X caps, 2x CM chokes, 1x MOV
Inrush Protection	-
Bridge Rectifier(s)	lx
APFC MOSFETs	2x Oriental Semiconductor OSG55R140F (550V, 14.5A @ 100°C, Rds(on): 0.14Ohm)
APFC Boost Diode	1x Global Power Technology G3S06506A (650V, 6A @ 155°C)
Bulk Cap(s)	1x Nippon Chemi-Con (400V, 470uF, 2,000h @ 105°C, KMW)
Main Switchers	2x Oriental Semiconductor OSG55R140F (550V, 14.5A @ 100°C, Rds(on): 0.14Ohm)
APFC Controller	Champion CM6502UHH
Resonant Controller	Champion CM6901X
Topology	Primary side: APFC, Half-Bridge & LLC converter Secondary side: Synchronous Rectification & DC-DC converters
Secondary Side	
+12V MOSFETs	6x NCE NCEP40T13GU (40V, 100A @ 100°C, Rds(on): 2.3mOhm)
5V & 3.3V	DC-DC Converters: 2x Excelliance MOS EMB03N03R (30V, 50A @ 100°C, Rds(on): 3.5mOhm) & 2x Excelliance MOS EMB06N03A (30V, 50A @ 100°C, Rds(on): 6mOhm) PWM Controller(s): ANPEC APW7159B
Filtering Capacitors	Electrolytic: 1x Nippon Chemi-Con (4-10,000h @ 105°C, KY), 2x Nippon Chemi-Con (2-8,000h @ 105°C, LXZ) Polymer: 22x no info
Supervisor IC	Grenergy GR8313 (OVP, UVP, SCP, 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
-12V	
Rectifier	1x STMicroelectronics L7912CV (-12V, 1.5A)

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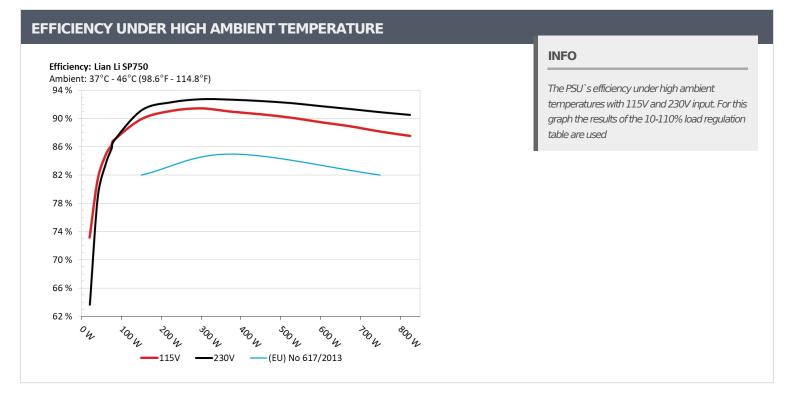
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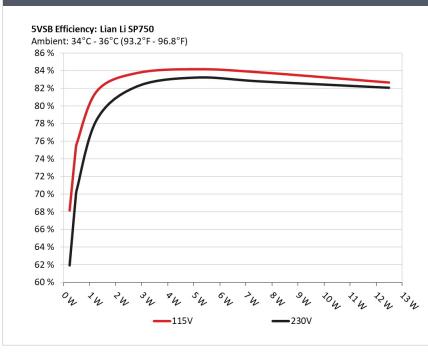


#### Anex

#### Lian Li SP750



#### **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	
	0.045A	0.231	- 60.1.400/	0.053	
1	5.142V	0.339	68.142%	115.15V	
2	0.090A	0.462	75.0000/	0.093	
2	5.138V	0.616	75.000%	115.15V	
_	0.550A	2.811	00 7050/	0.268	
3	5.112V	3.357	83.735%	115.15V	
	1.000A	5.086		0.312	
4	5.087V	6.042	84.177%	115.15V	
-	1.500A	7.587		0.335	
5	5.059V	9.053	83.806%	115.15V	
6	2.499A	12.500	02 (C10/	0.362	
	5.002V	15.122	82.661%	115.15V	

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

Test #	5VSB	DC/AC (Watts)	Efficiency	PF/AC Volts
1	0.045A	0.231		0.018
	5.141V	0.373	61.930%	230.28V
	0.090A	0.462	co 570%/	0.032
2	5.138V	0.664	69.578%	230.27V
3	0.550A	2.811		0.138
	5.113V	3.419	82.217%	230.26V
4	1.000A	5.087	83.230%	0.200
	5.088V	6.112		230.26V
-	1.500A	7.588		0.240
5	5.059V	9.165	82.793%	230.27V
6	2.499A	12.498	02.0700/	0.280
	5.001V	15.228	82.072%	230.27V

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## **115V**

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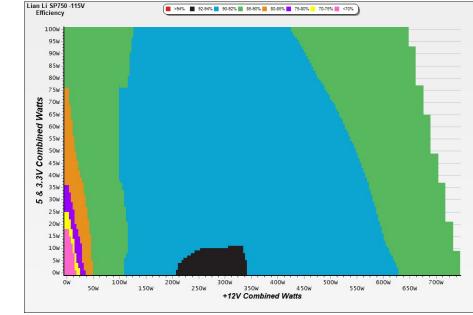
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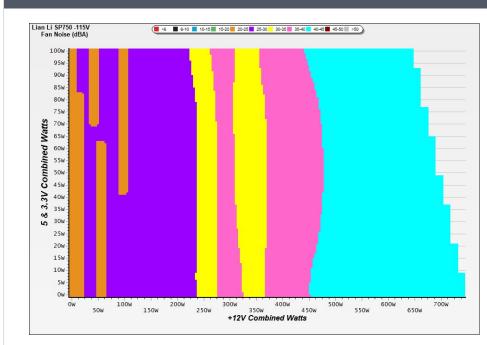




#### INFO

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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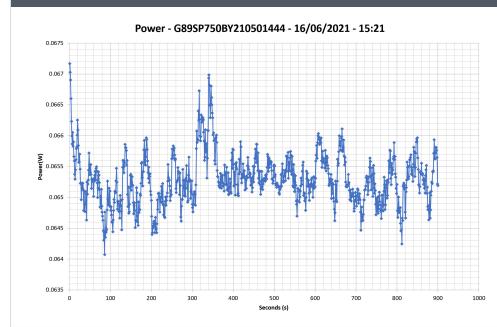
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#### VAMPIRE POWER -115V



#### 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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10-110% 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	
1	4.405A	1.955A	1.961A	0.984A	74.951	06 2270/	1871	31.5	40.68°C	0.948	
1	12.111V	5.119V	3.363V	5.081V	86.923	86.227%	10/1		44.25°C	115.14V	
2	9.840A	2.935A	2.952A	1.185A	149.988	89.910%	1967	22.2	40.76°C	0.974	
2	12.102V	5.111V	3.355V	5.062V	166.821	09.910%	1907	33.3	44.88°C	115.13V	
2	15.623A	3.428A	3.449A	1.387A	224.980	01.0660/	2070	24.6	41.09°C	0.981	
3	12.094V	5.103V	3.348V	5.044V	247.052	91.066%	2078	34.6	45.73°C	115.13V	
4	21.413A	3.925A	3.950A	1.592A	299.976	01 4010/	2220	35.9	41.86°C	0.988	
4	12.085V	5.096V	3.341V	5.026V	328.127	91.421%			47.05°C	115.13V	
F	26.814A	4.915A	4.951A	1.798A	374.279	00.0620/	2456	40.4	42.26°C	0.991	
5	12.075V	5.087V	3.332V	5.006V	411.469	90.962%			48.28°C	115.13V	
C	32.274A	5.908A	5.957A	2.000A	449.201	00 5000/	2672	40.8	42.62°C	0.993	
6	12.066V	5.079V	3.324V	4.987V	495.870	90.588%			49.26°C	115.13V	
7	37.777A	6.904A	6.968A	2.214A	524.546	00 11 40/	2896	44.1	43.20°C	0.994	
7	12.056V	5.070V	3.316V	4.967V	582.091	90.114%			50.22°C	115.13V	
0	43.288A	7.906A	7.983A	2.425A	599.855	00.4600/	2978	44.9	43.93°C	0.995	
8	12.046V	5.061V	3.307V	4.947V	670.461	89.469%			51.81°C	115.12V	
0	49.170A	8.407A	8.484A	2.428A	674.381	00.0070/	2070	44.9	44.07°C	0.996	
9	12.038V	5.054V	3.299V	4.940V	758.696	88.887%	2979		52.63°C	115.12V	
10	55.065A	8.917A	9.022A	2.537A	749.515	00.1.400/	2000	45.2	45.49°C	0.996	
10	12.028V	5.046V	3.292V	4.926V	850.348	88.142%	2988		54.66°C	115.11V	
11	61.358A	8.928A	9.039A	2.540A	824.701	07 5070/	2007	45.4	46.26°C	0.996	
11	12.020V	5.039V	3.285V	4.920V	942.227	87.527%	2997		55.88°C	115.11V	
0.1	0.116A	11.998A	11.997A	0.000A	102.628	05 1000/	2461	51 40.5	41.98°C	0.964	
CL1	12.099V	5.096V	3.341V	5.127V	120.564	85.123%	2461		48.81°C	115.15V	
	61.993A	0.998A	1.000A	1.000A	759.663		2002		45.66°C	0.996	
CL2	12.038V	5.064V	3.308V	5.029V	857.747	88.565%	2993	45.4	54.43°C	115.11V	

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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])	PF/AC Volts		
1	1.223A	0.488A	0.490A	0.195A	19.978	70 17 40/	1700	29.6	0.800		
1	12.119V	5.128V	3.372V	5.133V	27.302	73.174%	1708		115.15V		
2	2.449A	0.976A	0.978A	0.390A	39.966	01 21 00/	1707	30.0	0.895		
2	12.117V	5.124V	3.368V	5.119V	49.147	81.319%	1737		115.14V		
2	3.678A	1.464A	1.471A	0.587A	59.999	0.0.000/	4.808% 1764	30.2	0.930		
3	12.114V	5.121V	3.365V	5.106V	70.747	84.808%			115.14V		
	4.901A	1.954A	1.962A	0.785A	79.952	00.0000/	1005	21 5	0.951		
4	12.111V	5.118V	3.363V	5.092V	92.013	86.892%	1825	31.5	115.14V		

#### **RIPPLE MEASUREMENTS 115V**

Test	12V	5V	3.3V	5VSB	Pass/Fail
10% Load	8.24mV	11.74mV	6.03mV	8.13mV	Pass
20% Load	9.29mV	12.30mV	6.20mV	8.73mV	Pass
30% Load	11.19mV	12.52mV	6.25mV	8.73mV	Pass
40% Load	12.85mV	12.83mV	6.98mV	9.24mV	Pass
50% Load	15.23mV	13.62mV	7.64mV	9.62mV	Pass
60% Load	17.28mV	13.97mV	7.99mV	10.35mV	Pass
70% Load	18.60mV	14.83mV	8.45mV	10.35mV	Pass
80% Load	20.19mV	14.91mV	9.71mV	12.39mV	Pass
90% Load	21.51mV	15.37mV	9.98mV	12.52mV	Pass
100% Load	29.17mV	16.65mV	10.83mV	15.64mV	Pass
110% Load	31.81mV	16.68mV	11.02mV	15.46mV	Pass
Crossload1	14.56mV	19.84mV	11.66mV	17.34mV	Pass
Crossload2	29.59mV	15.49mV	10.29mV	12.10mV	Pass

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Lian Li SP750

# **230V**

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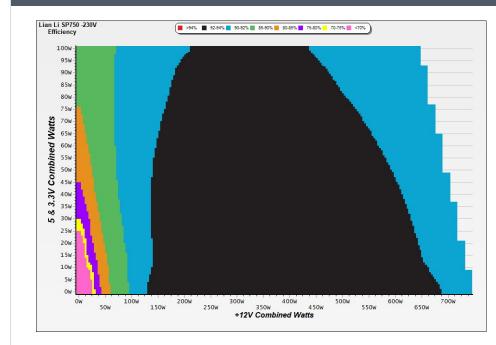
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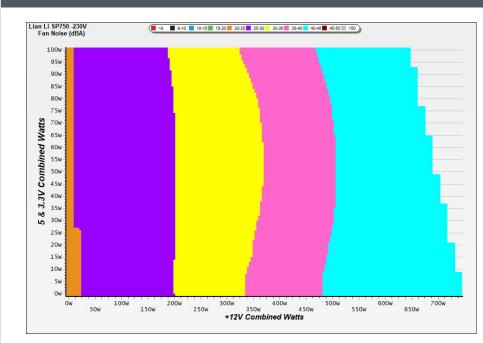
#### **EFFICIENCY GRAPH 230V**



#### INFO

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#### **NOISE GRAPH 230V**



#### INFO

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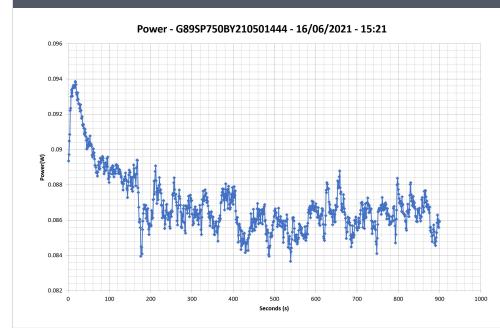
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#### **VAMPIRE POWER -230V**



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10-110% 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	
1	4.409A	1.954A	1.963A	0.984A	74.952	OF 70/0/	2010	34.0	40.66°C	0.815	
1	12.100V	5.118V	3.363V	5.081V	87.373	85.784%			43.60°C	230.34V	
2	9.841A	2.935A	2.952A	1.185A	149.996	01 1620/	2002	34.1	40.77°C	0.914	
Ζ	12.102V	5.110V	3.355V	5.062V	164.537	91.162%			44.18°C	230.33V	
2	15.624A	3.430A	3.448A	1.388A	224.989	02 2000/	2145	25.7	41.06°C	0.946	
3	12.093V	5.103V	3.348V	5.044V	243.762	92.299%	2145	35.7	45.11°C	230.32V	
Л	21.415A	3.925A	3.951A	1.592A	299.979	02 7220/	2228	35.9	41.52°C	0.961	
4	12.084V	5.096V	3.340V	5.026V	323.487	92.733%			46.32°C	230.32V	
F	26.816A	4.918A	4.952A	1.798A	374.324	02 6670/	2462	40.5	42.65°C	0.970	
5	12.075V	5.087V	3.332V	5.007V	403.945	92.667%			48.24°C	230.31V	
C	32.279A	5.908A	5.956A	2.000A	449.225	00 4750/	2679	40.8	42.79°C	0.974	
6	12.065V	5.079V	3.324V	4.987V	485.781	92.475%			49.48°C	230.31V	
7	37.783A	6.905A	6.967A	2.214A	524.575	02 1000/	2869	44.3	43.24°C	0.978	
7	12.055V	5.070V	3.315V	4.967V	569.012	92.190%			50.79°C	230.31V	
8	43.291A	7.905A	7.981A	2.425A	599.880	91.751%	2983	45.2	43.94°C	0.981	
0	12.046V	5.061V	3.307V	4.947V	653.816	91.751%			51.86°C	230.30V	
0	49.179A	8.409A	8.487A	2.429A	674.415	01 2420/	2002	45.2	44.19°C	0.983	
9	12.036V	5.054V	3.299V	4.940V	738.343	91.342%	2983		52.90°C	230.31V	
10	55.072A	8.917A	9.020A	2.537A	749.538	00.0000/	2007	45.2	45.52°C	0.984	
10	12.027V	5.046V	3.292V	4.926V	824.634	90.893%	2987		54.83°C	230.31V	
11	61.365A	8.929A	9.037A	2.540A	824.723	00 5009/	2000		46.17°C	0.985	
11	12.019V	5.039V	3.285V	4.920V	911.206	90.509%	3000	45.5	55.85°C	230.30V	
0.1	0.116A	11.998A	11.998A	0.000A	102.629	05.0620/	2570	40.0	42.55°C	0.874	
CL1	12.091V	5.096V	3.341V	5.126V	119.389	85.962%	2570	40.9	48.18°C	230.31V	
	61.994A	1.000A	1.001A	1.000A	759.564	01 45 40/	2000		45.40°C	0.984	
CL2	12.036V	5.064V	3.308V	5.028V	830.541	91.454%	2999	45.5	54.50°C	230.31V	

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#### Anex

#### Lian Li SP750

20-80W LOAD TESTS 230V											
Test #	12V	5V	3.3V	5VSB	DC/AC (Watts)	Efficiency	Fan Speed (RPM)	PSU Noise (dB[A])	PF/AC Volts		
1	1.225A	0.488A	0.490A	0.195A	19.985	ca caa%	1750	30.1	0.521		
	12.108V	5.126V	3.370V	5.132V	31.412	63.622%			230.32V		
2	2.452A	0.975A	0.979A	0.391A	39.976	70.0150/	1760	30.3	0.668		
Z	12.105V	5.123V	3.368V	5.119V	50.657	78.915%	1769		230.37V		
2	3.682A	1.464A	1.469A	0.588A	60.005	00 5700/	1000	21.7	0.768		
3	12.103V	5.120V	3.365V	5.106V	71.800	83.572%	1890	31.7	230.36V		
4	4.906A	1.953A	1.963A	0.785A	79.953	06 7070/	1010	22.2	0.826		
	12.100V	5.117V	3.362V	5.092V	92.126	86.787%	1913	32.3	230.34V		

#### **RIPPLE MEASUREMENTS 230V**

Test	12V	5V	3.3V	5VSB	Pass/Fail
10% Load	6.48mV	11.61mV	5.90mV	7.75mV	Pass
20% Load	12.71mV	11.92mV	6.20mV	7.90mV	Pass
30% Load	12.41mV	12.52mV	6.96mV	8.46mV	Pass
40% Load	14.02mV	13.03mV	7.26mV	8.94mV	Pass
50% Load	15.59mV	13.21mV	7.66mV	9.79mV	Pass
60% Load	16.68mV	13.72mV	7.77mV	10.30mV	Pass
70% Load	18.14mV	14.02mV	8.19mV	10.83mV	Pass
80% Load	19.66mV	15.67mV	9.91mV	12.27mV	Pass
90% Load	21.51mV	15.65mV	9.83mV	12.12mV	Pass
100% Load	29.58mV	17.03mV	10.39mV	15.44mV	Pass
110% Load	31.73mV	17.21mV	11.11mV	14.94mV	Pass
Crossload1	19.14mV	19.97mV	12.99mV	19.05mV	Pass
Crossload2	29.60mV	14.83mV	9.48mV	11.43mV	Pass

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## EFFICIENCY AND NOISE LEVEL CERTIFICATIONS

Lian Li SP750



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