

Anex

1st Player NGDP 750W

Lab ID#: FP75002360

Receipt Date: Jan 24, 2024

Test Date: Feb 19, 2024

Report: 24PS2360A

Report Date: Feb 21, 2024

DUT INFORMATION				
Brand	1st Player			
Manufacturer (OEM)	Helly Technology			
Series	NGDP			
Model Number	HA-750BA4			
Serial Number	240126PSNGDP-J0116			
DUT Notes				

DUT SPECIFICATIONS						
Rated Voltage (Vrms)	100-240					
Rated Current (Arms)	10-5					
Rated Frequency (Hz)	50-60					
Rated Power (W)	750					
Туре	ATX12V					
Cooling	120mm Fluid Dynamic Bearing Fan (HA1225M12F-Z)					
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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RESULTS	
Temperature Range (°C /°F)	30-32 / 86-89.6
ErP Lot 3/6 Ready	✓
(EU) No 617/2013 Compliance	✓
ALPM (Alternative Low Power Mode) compatible	✓
ATX v3.1 PSU Power Excursion	✓

115V	
Average Efficiency	88.719%
Efficiency With 10W (≤500W) or 2% (>500W)	65.382
Average Efficiency 5VSB	80.858%
Standby Power Consumption (W)	0.0523000
Average PF	0.993
Avg Noise Output	22.42 dB(A)
Efficiency Rating (ETA)	GOLD
Noise Rating (LAMBDA)	Α

230V	
Average Efficiency	91.113%
Average Efficiency 5VSB	80.512%
Standby Power Consumption (W)	0.0893000
Average PF	0.967
Avg Noise Output	22.43 dB(A)
Efficiency Rating (ETA)	PLATINUM
Noise Rating (LAMBDA)	Α

POWER SPECIFICATIONS						
Rail		3.3V	5V	12V	5VSB	-12V
Mary Danier	Amps	20	20	62.5	3	0.3
Max. Power Watts		120		750	15	3.6
Total Max. Power (W)		750				

HOLD-UP TIME & POWER OK SIGNAL (230V)		
Hold-Up Time (ms)	20.6	
AC Loss to PWR_OK Hold Up Time (ms)	17.4	
PWR_OK Inactive to DC Loss Delay (ms)	3.2	

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CABLES AND CONNECTORS				
Modular Cables				
Description	Cable Count	Connector Count (Total)	Gauge	In Cable Capacitors
ATX connector 20+4 pin (610mm)	1	1	18-22AWG	No
4+4 pin EPS12V (650mm)	2	2	18AWG	No
6+2 pin PCle (600mm)	2	2	18AWG	No
12+4 pin PCle (710mm) (600W)	1	1	16-24AWG	No
SATA (450mm+145mm+145mm+145mm)	2	8	18AWG	No
4-pin Molex (450mm+145mm+145mm+145mm)	1	4	18AWG	No
AC Power Cord (1360mm) - C13 coupler	1	1	18AWG	-

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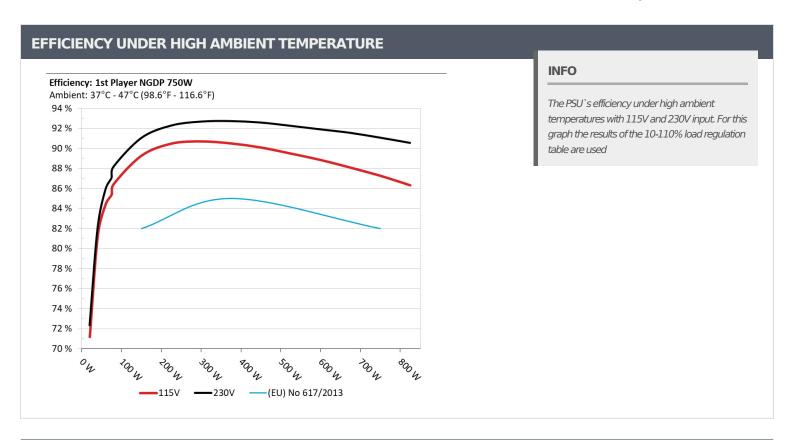
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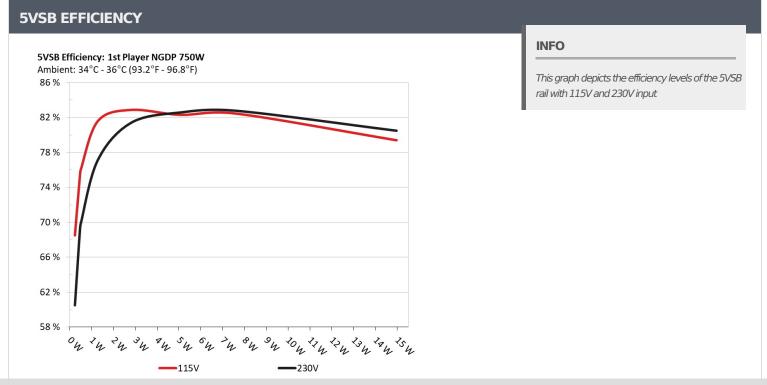
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5VSB EFFICIEN	ICY -115V (ERP LO	OT 3/6 & CEC)		
Test #	5VSB	DC/AC (Watts)	Efficiency	PF/AC Volts
1	0.045A	0.231W	67,0000/	0.053
1	5.136V	0.34W	67.989%	115.17V
2	0.09A	0.462W	74.0510/	0.095
2	5.134V	0.617W	74.851%	115.16V
2	0.55A	2.812W	02.2000/	0.37
3	5.111V	3.414W	82.366%	115.17V
	1A	5.09W	01.7040/	0.478
4	5.088V	6.223W	81.784%	115.16V
_	1.5A	7.596W	07.0470/	0.53
5	5.063V	9.271W	81.943%	115.15V
6	3A	14.962W	70.0020/	0.579
	4.987V	18.967W	78.883%	115.15V

5VSB EFFICIE	NCY -230V (ERP	P LOT 3/6 & CEC)		
Test #	5VSB	DC/AC (Watts)	Efficiency	PF/AC Volts
-	0.045A	0.231W	E0.0000/	0.018
1	5.137V	0.385W	59.988%	230.39V
2	0.09A	0.462W	CO C 400/	0.032
2	5.134V	0.673W	68.648%	230.39V
_	0.55A	2.812W	00.0050/	0.152
3	5.111V	3.476W	80.905%	230.39V
4	1A	5.09W	02.0040/	0.244
4	5.088V	6.201W	82.084%	230.39V
_	1.5A	7.597W	02.0700/	0.318
5	5.063V	9.234W	82.272%	230.39V
6	ЗА	14.962W	70.0050/	0.434
6	4.987V	18.706W	79.985%	230.39V

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115V

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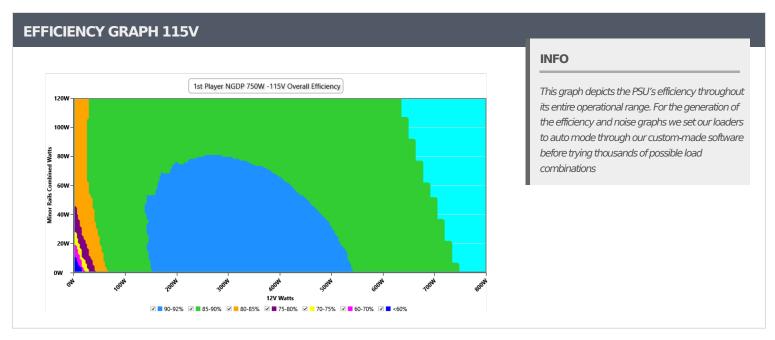
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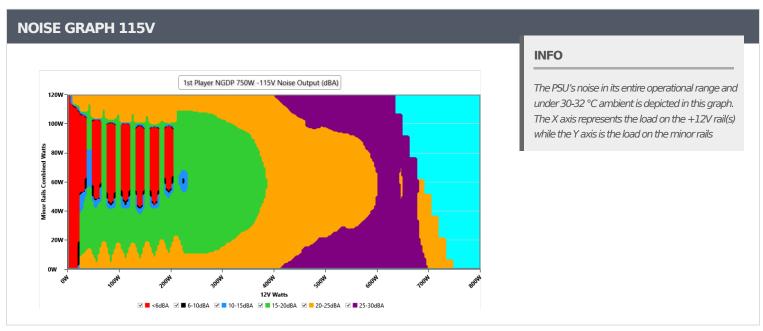
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VAMPIRE POWER -115V							
Detailed Results							
	Average	Min	Limit Min	Max	Limit Max	Result	
Mains Voltage RMS:	115.14 V	115.11 V	113.85 V	115.17 V	116.15 V	PASS	
Mains Frequency:	60.00 Hz	59.99 Hz	59.40 Hz	60.01 Hz	60.60 Hz	PASS	
Mains Voltage CF:	1.415	1.415	1.340	1.416	1.490	PASS	
Mains Voltage THD:	0.13 %	0.11%	N/A	0.15 %	2.00 %	PASS	
Real Power:	0.052 W	0.008 W	N/A	0.062 W	N/A	N/A	
Apparent Power:	6.328 W	6.324 W	N/A	6.333 W	N/A	N/A	
Power Factor:	0.009	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
	4.484A	1.979A	1.987A	0.985A	75.009		(/	(412)2 47	40.26°C	0.982
10%	11.908V	5.055V	3.322V	5.08V	87.823	85.409%	924	21.1	44.48°C	115.16\
	10.004A	2.97A	2.983A	1.186A	149.981				40.7°C	0.988
20%	11.902V	5.052V	3.319V	5.061V	167.969	89.29%	978	23.0	45.27°C	115.14\
	15.881A	3.467A	3.484A	1.389A	224.99			24.0	41.27°C	0.993
30%	11.897V	5.049V	3.316V	5.043V	248.648	90.49%	1012		46.28°C	115.12V
	21.769A	3.964A	3.985A	1.593A	300.083				41.68°C	0.995
40%	11.892V	5.047V	3.313V	5.024V	330.82	90.709%	1059	25.7	47.24°C	115.1V
	27.273A	4.958A	4.986A	1.799A	374.7		1124	27.7	42.14°C	0.996
50%	11.887V	5.044V	3.31V	5.005V	413.97	90.514%	1134		48.21°C	115.08\
600/	32.808A	5.953A	5.99A			20.0	42.79°C	0.997		
60%	11.882V	5.041V	3.306V	4.986V	498.952	90.106%	1217	29.9	49.32°C	115.06\
700/	38.348A	6.95A	6.996A	2.216A	524.542	— 00 E040/	1447	240	43.25°C	0.997
70%	11.876V	5.038V	3.302V	4.965V	586.052	89.504%	1447	34.8	50.31°C	115.05\
000/	43.961A	7.947A	8.003A	2.323A	599.749	00.0620/	1522	26.4	43.89°C	0.997
80%	11.870V	5.034V	3.299V	4.951V	674.921	88.862%	1532	36.4	51.99°C	115.01\
000/	49.919A	8.449A	8.496A	2.431A	674.791	- 00.0000/	1604	20.0	44.47°C	0.998
90%	11.865V	5.031V	3.295V	4.936V	765.961	88.098%	1624	38.0	53.51°C	115V
1000/	55.678A	8.95A	9.02A	3.066A	749.999	- 07.2020/	1750	20.7	45.66°C	0.998
100%	11.859V	5.028V	3.293V	4.894V	859.281	87.283%	1750	39.7	55.67°C	114.98\
110%	61.313A	9.951A	10.126A	3.072A	825.044	86.336%	1847	41.0	46.76°C	0.998
110%	11.853V	5.025V	3.288V	4.884V	955.625	00.330%	1047	41.0	57.69°C	114.96\
CL1	0.118A	14.35A	14.429A	0A	121.303	82.967%	1526	36.2	40.35°C	0.986
CLI	11.903V	5.031V	3.306V	5.108V	146.206	02.90770	1320	30.2	45.84°C	115.14\
CL2	0.118A	19.9A	0A	0A	101.4	82.096%	1237	30.3	40.61°C	0.982
CLZ	11.908V	5.025V	3.324V	5.121V	123.514	02.09070	1237	30.3	47.71°C	115.15\
CL3	0.117A	0A	19.987A	0A	67.391	76.468%	1437	34.4	40.22°C	0.982
CL)	11.905V	5.057V	3.302V	5.116V	88.129	70.40070	T471	34.4	49.31°C	115.16\
CL4	63.202A	0A	0A	0A	749.719	— 88 133%	1534	36.4	45.79°C	0.998
CL4	11.862V	5.047V	3.305V	5.072V	850.669	88.133%	1334	30.4	56.74°C	114.98V

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20-80W LOAD TESTS 115V									
12V	5V	3.3V	5VSB	DC/AC (Watts)	Efficiency	Fan Speed (RPM)	PSU Noise (dB[A])	Temps (In/Out)	PF/AC Volts
1.248A	0.494A	0.496A	0.195A	20.008		•	<6.0	39.65°C	0.884
11.914V	5.061V	3.327V	5.127V	28.104	/1.193%	0		36.59°C	115.18V
2.744A	0.692A	0.694A	0.293A	40.005	01.00/	0	<6.0	40.91°C	0.955
11.911V	5.06V	3.326V	5.12V	49.207	81.3%			37.62°C	115.17V
4.243A	0.89A	0.894A	0.391A	60.005	04.4200/	847	19	38.16°C	0.975
11.910V	5.058V	3.324V	5.113V	71.068	84.438%			41.98°C	115.16V
5.738A	1.088A	1.092A	0.49A	79.976			18.9	39.13°C	0.981
11.909V	5.057V	3.323V	5.106V	92.5	86.448%	866		43.09°C	115.16V
	12V 1.248A 11.914V 2.744A 11.911V 4.243A 11.910V 5.738A	12V 5V 1.248A 0.494A 11.914V 5.061V 2.744A 0.692A 11.911V 5.06V 4.243A 0.89A 11.910V 5.058V 5.738A 1.088A	12V 5V 3.3V 1.248A 0.494A 0.496A 11.914V 5.061V 3.327V 2.744A 0.692A 0.694A 11.911V 5.06V 3.326V 4.243A 0.89A 0.894A 11.910V 5.058V 3.324V 5.738A 1.088A 1.092A	12V 5V 3.3V 5VSB 1.248A 0.494A 0.496A 0.195A 11.914V 5.061V 3.327V 5.127V 2.744A 0.692A 0.694A 0.293A 11.911V 5.06V 3.326V 5.12V 4.243A 0.89A 0.894A 0.391A 11.910V 5.058V 3.324V 5.113V 5.738A 1.088A 1.092A 0.49A	12V 5V 3.3V 5VSB DC/AC (Watts) 1.248A 0.494A 0.496A 0.195A 20.008 11.914V 5.061V 3.327V 5.127V 28.104 2.744A 0.692A 0.694A 0.293A 40.005 11.911V 5.06V 3.326V 5.12V 49.207 4.243A 0.89A 0.894A 0.391A 60.005 11.910V 5.058V 3.324V 5.113V 71.068 5.738A 1.088A 1.092A 0.49A 79.976	12V 5V 3.3V 5VSB DC/AC (Watts) Efficiency 1.248A 0.494A 0.496A 0.195A 20.008 71.193% 11.914V 5.061V 3.327V 5.127V 28.104 71.193% 2.744A 0.692A 0.694A 0.293A 40.005 81.3% 11.911V 5.06V 3.326V 5.12V 49.207 4.243A 0.89A 0.894A 0.391A 60.005 84.438% 11.910V 5.058V 3.324V 5.113V 71.068 86.448% 5.738A 1.088A 1.092A 0.49A 79.976 86.448%	12V 5V 3.3V 5VSB DC/AC (Watts) Efficiency Fan Speed (RPM) 1.248A 0.494A 0.496A 0.195A 20.008 71.193% 0 11.914V 5.061V 3.327V 5.127V 28.104 71.193% 0 2.744A 0.692A 0.694A 0.293A 40.005 81.3% 0 11.911V 5.06V 3.326V 5.12V 49.207 81.3% 0 4.243A 0.89A 0.894A 0.391A 60.005 84.438% 847 11.910V 5.058V 3.324V 5.113V 71.068 86.448% 866	12V 5V 3.3V 5VSB DC/AC (Watts) Efficiency Fan Speed (RPM) PSU Noise (dB[A]) 1.248A 0.494A 0.496A 0.195A 20.008 71.193% 0 <6.0	12V 5V 3.3V 5VSB DC/AC (Watts) Efficiency Fan Speed (RPM) PSU Noise (In/Out) Temps (In/Out) 1.248A 0.494A 0.496A 0.195A 20.008 71.193% 0 -6.0 39.65°C 11.914V 5.061V 3.327V 5.127V 28.104 0 -6.0 36.59°C 2.744A 0.692A 0.694A 0.293A 40.005 81.3% 0 -6.0 40.91°C 11.911V 5.06V 3.326V 5.12V 49.207 81.3% 0 -6.0 37.62°C 4.243A 0.89A 0.894A 0.391A 60.005 84.438% 847 19 38.16°C 11.910V 5.058V 3.324V 5.113V 71.068 86.448% 866 18.9 39.13°C

RIPPLE MEASUREMENTS 115V 5VSB Pass/Fail Test **12V 5V** 3.3V 10% Load 13.32mV 7.65mV 7.17mV 7.44mV Pass 20% Load 13.60mV 7.53mV 7.75mV 7.60mV **Pass** 30% Load 13.11mV 6.78mV 7.27mV 7.64mV Pass 7.88mV 40% Load 14.11mV 8.31mV 8.51mV Pass 14.37mV 8.65mV 9.42mV 50% Load 8.77mV Pass 60% Load 14.59mV 10.56mV 9.00mV 9.43mV **Pass** 70% Load 14.79mV 10.00mV 8.90mV 9.78mV Pass 80% Load 15.77mV 10.00mV 11.95mV 10.54mV Pass 90% Load 15.06mV 9.64mV 10.89mV 10.03mV Pass 27.67mV 15.03mV 100% Load 12.35mV 14.88mV Pass 110% Load 28.26mV 11.76mV 13.84mV 15.36mV **Pass** Crossload1 19.33mV 12.19mV 14.38mV 22.58mV **Pass** Crossload2 13.19mV 8.26mV 8.59mV 19.21mV **Pass** Crossload3 12.55mV 9.64mV 11.95mV 18.49mV Pass 27.42mV 8.45mV 7.94mV 24.92mV Crossload4 Pass

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230V

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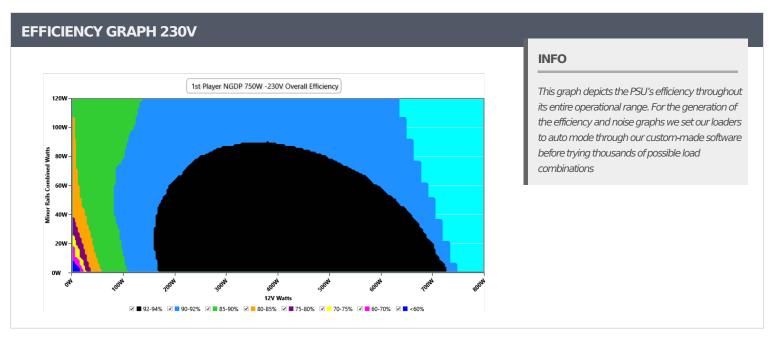
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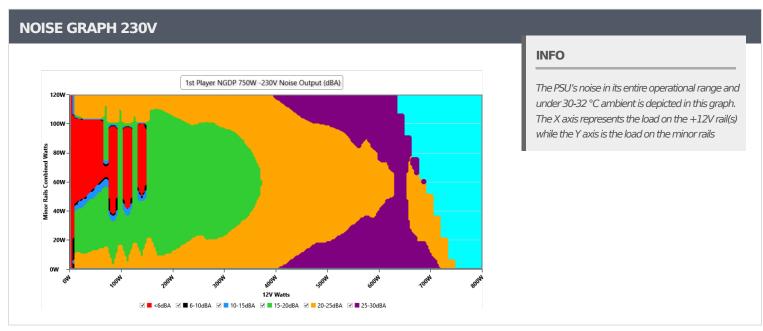
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VAMPIRE POWER -230V										
Detailed Results										
	Average	Min	Limit Min	Max	Limit Max	Result				
Mains Voltage RMS:	230.38 V	230.37 V	227.70 V	230.41 V	232.30 V	PASS				
Mains Frequency:	50.00 Hz	50.00 Hz	49.50 Hz	50.00 Hz	50.50 Hz	PASS				
Mains Voltage CF:	1.415	1.415	1.340	1.416	1.490	PASS				
Mains Voltage THD:	0.14 %	0.13 %	N/A	0.16 %	2.00 %	PASS				
Real Power:	0.089 W	0.078 W	N/A	0.099 W	N/A	N/A				
Apparent Power:	21.249 W	21.240 W	N/A	21.257 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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Test	12V	5V	3.3V	5VSB	DC/AC	Efficiency	Fan Speed	PSU Noise	Temps	PF/AC
	4.484A	1.979A	1.987A	0.985A	(Watts) 75.007		(RPM)	(dB[A])	(In/Out) 40.28°C	Volts 0.869
10%						87.059%	905	20.5		230.38
	11.909V 10.002A	5.055V 2.97A	3.322V 2.983A	5.08V 1.186A	86.161 149.972				44.52°C 40.87°C	0.945
20%	11.904V	5.052V	3.319V	5.061V	164.74	91.034%	936	21.7	45.46°C	230.38
	15.878A	3.467A	3.484A	1.388A	224.979				43.40 ℃ 41.2°C	0.967
30%	11.898V	5.049V	3.316V	5.043V	243.821	92.27%	994	23.4	46.28°C	230.37\
	21.765A	3.964A	3.984A	1.593A	300.065				41.61°C	0.976
40%	11.893V	5.047V	3.313V	5.025V	323.815	92.666%	1046	25.1	47.15°C	230.36\
	27.267A	4.958A	4.987A	1.799A	374.666			26.9	42.45°C	0.981
50%	11.888V	5.044V	3.309V	5.005V	404.119	92.715%	1101		48.45°C	230.36
	32.804A	5.953A	5.991A	2.001A	449.56			28.9	42.9°C	0.983
60%	11.882V	5.041V	3.306V	4.986V	485.628	92.571%	1182		49.43°C	230.35
	38.344A	6.95A	6.997A	2.215A	524.511				43.09°C	0.985
70%	11.876V	5.037V	3.302V	4.966V	568.608	92.247%	1428	34.2	50.18°C	230.33
	43.959A	7.948A	8.004A	2.323A	599.729				43.74°C	0.987
80%	11.871V	5.033V	3.298V	4.951V	652.637	91.892%	1507	35.9	51.78°C	230.32
	49.914A	8.448A	8.495A	2.431A	674.761				44.98°C	0.989
90%	11.865V	5.031V	3.296V	4.937V	737.094	91.544%	1608	37.6	53.99°C	230.31
	55.674A	8.949A	9.02A	3.065A	749.972				45.81°C	0.99
100%	11.860V	5.028V	3.292V	4.895V	823.587	91.062%	1717	39.2	55.84°C	230.3V
77.00/	61.304A	9.951A	10.126A	3.071A	825.004	00.5440/	1000	40.0	46.78°C	0.991
110%	11.854V	5.025V	3.288V	4.885V	911.162	90.544%	1839	40.9	57.72°C	230.29
Cl 1	0.118A	14.35A	14.427A	0A	121.3	04.6040/	1550	26.7	40.57°C	0.936
CL1	11.904V	5.031V	3.306V	5.108V	143.343	84.624%	1552	36.7	45.98°C	230.38\
CI 2	0.117A	19.902A	0A	0A	101.397	02.6200/	1412	22.0	40.8°C	0.919
CL2	11.909V	5.025V	3.325V	5.121V	121.236	83.638%	1413	33.8	47.95°C	230.39
Cl 2	0.117A	0A	19.987A	0A	67.392	77.0010/	1445	24.7	40.02°C	0.87
CL3	11.906V	5.056V	3.302V	5.116V	86.505	77.901%	1445	34.7	49.03°C	230.39
CI 4	63.206A	0A	0A	0A	749.774	01.0060/	1510	26.1	45.82°C	0.99
CL4	11.862V	5.046V	3.306V	5.072V	816.62	91.806%	1513	36.1	56.79°C	230.31\

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Anex

1st Player NGDP 750W

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
20144	1.246A	0.494A	0.496A	0.195A	20.004	 /	0	<6.0	39.7°C	0.542
20W	11.914V	5.061V	3.328V	5.128V	27.639	72.354%			36.65°C	230.38V
40).	2.744A	0.692A	0.694A	0.293A	40.003	02.02.40/	002	19.6	37.26°C	0.729
40W	11.913V	5.059V	3.326V	5.121V	48.764	82.034%	883		40.56°C	230.38V
COM	4.242A	0.89A	0.893A	0.391A	60.002	05.0150/		10.5	38.13°C	0.827
60W	11.911V	5.057V	3.324V	5.114V	69.831	85.915% 836	18.5	41.65°C	230.38V	
00)4/	5.738A	1.088A	1.092A	0.49A	79.966	00.1.00/	065	10.0	39.04°C	0.878
80W	11.909V	5.056V	3.323V	5.106V	90.708	88.16%	865	18.9	42.89°C	230.38V

RIPPLE MEA	SUREMENTS 230V				
Test	12V	5V	3.3V	5VSB	Pass/Fail
10% Load	13.04mV	6.78mV	6.56mV	6.93mV	Pass
20% Load	13.04mV	7.14mV	7.98mV	7.79mV	Pass
30% Load	13.50mV	8.37mV	7.83mV	7.85mV	Pass
40% Load	14.47mV	8.72mV	9.05mV	8.61mV	Pass
50% Load	14.67mV	9.64mV	7.98mV	8.40mV	Pass
60% Load	14.52mV	8.37mV	8.24mV	8.97mV	Pass
70% Load	14.01mV	8.98mV	8.49mV	9.07mV	Pass
80% Load	15.28mV	9.39mV	10.43mV	9.32mV	Pass
90% Load	16.57mV	10.51mV	12.05mV	10.34mV	Pass
100% Load	27.56mV	11.71mV	13.20mV	14.19mV	Pass
110% Load	28.39mV	12.17mV	13.85mV	14.66mV	Pass
Crossload1	19.00mV	12.15mV	14.47mV	22.20mV	Pass
Crossload2	12.89mV	8.41mV	8.04mV	19.21mV	Pass
Crossload3	12.59mV	10.35mV	12.20mV	19.36mV	Pass
Crossload4	26.82mV	7.66mV	8.04mV	24.15mV	Pass

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Anex

1st Player NGDP 750W





CERTIFICATIONS 115V







Aristeidis BitziopoulosLab Director

CERTIFICATIONS 230V





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