

Anex KBM! Gaming FN850

Lab ID#: KB85002365

Receipt Date: Feb 6, 2024

Test Date: Feb 22, 2024

Report: 24PS2365A

Report Date: Feb 27, 2024

DUT INFORMATION	
Brand	KBM! Gaming
Manufacturer (OEM)	Kinpower
Series	FN
Model Number	
Serial Number	
DUT Notes	

DUT SPECIFICATION	IS
Rated Voltage (Vrms)	100-240
Rated Current (Arms)	16
Rated Frequency (Hz)	50-60
Rated Power (W)	850
Туре	ATX12V
Cooling	140mm Rifle Bearing Fan (EFS-14E12H)
Semi-Passive Operation	Х
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	/

115V	
Average Efficiency	88.408%
Efficiency With 10W (≤500W) or 2% (>500W)	57.518
Average Efficiency 5VSB	82.505%
Standby Power Consumption (W)	0.0461000
Average PF	0.990
Avg Noise Output	32.88 dB(A)
Efficiency Rating (ETA)	GOLD
Noise Rating (LAMBDA)	Standard++

230V	
Average Efficiency	90.563%
Average Efficiency 5VSB	80.910%
Standby Power Consumption (W)	0.1147000
Average PF	0.955
Avg Noise Output	32.14 dB(A)
Efficiency Rating (ETA)	GOLD
Noise Rating (LAMBDA)	Standard++

POWER SPECIFICATIONS						
Rail		3.3V	5V	12V	5VSB	-12V
Mary Davis	Amps	20	20	70.8	3	0.3
Max. Power Watts		103		850	15	3.6
Total Max. Power (W)		850				

HOLD-UP TIME & POWER OK SIGNAL (230V)	
Hold-Up Time (ms)	23.7
AC Loss to PWR_OK Hold Up Time (ms)	20.7
PWR_OK Inactive to DC Loss Delay (ms)	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 (550mm)	1	1	18-22AWG	No
4+4 pin EPS12V (600mm)	2	2	18AWG	No
6+2 pin PCle (550mm+150mm)	2	4	18AWG	No
12+4 pin PCle (610mm) (600W)	1	1	16-24AWG	No
SATA (450mm+155mm+155mm)	3	9	18AWG	No
4-pin Molex (450mm+150mm+150mm)	1	3	18AWG	No

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Conoral Data	
General Data	
Manufacturer (OEM)	Kinpower
PCB Type	Double-Sided
Primary Side	
Transient Filter	4x Y caps, 1x X caps, 2x CM chokes, 1x MOV
Inrush Protection	1x NTC Thermistors (MF72 2.5D 13, 2.5 Ohm, 6A Max Sustained Current @ 25C) & Relay
Bridge Rectifier(s)	2x GBU 1329
APFC MOSFETs	2x FuXin Semiconductor FXN30S60T (600V, 17A @ 100°C, Rds(on): 0.15Ohm)
APFC Boost Diode	1x Global Power G3S06510A (650V, 10A @ 150°C)
Bulk Cap(s)	2x Nippon Chemi-Con (400V, 390uF each or 780uF both, 2000h @ 105°C, KMR)
Main Switchers	2x FuXin Semiconductor FXN30S60T (600V, 17A @ 100°C, Rds(on): 0.15Ohm)
APFC Controller	Champion CM6500UNX
Resonant Controller	Champion CM6901X
Topology	Primary side: APFC, Half-Bridge & LLC converter
Тороюду	Secondary side: Synchronous Rectification & DC-DC converters
Secondary Side	
+12V MOSFETs	8x Airupton AKG60N023G (60V, 84A @ 100°C, Rds(on): 2.3mOhm)
5V & 3.3V	DC-DC Converters: 4x Excelliance EMB06N03HR (25V, 97A @ 100°C, Rds(on): 1.4mOhm)
JV & 3.3V	PWM Controller(s): 2x AT8853ZSPC
Filtering Capacitors	Electrolytic: 4x ChengX (2-4000 @ 105°C, GR)
	Polymer: 33x ChengX (PC Series)
Supervisor IC	IN1S429I - DCG
Fan Model	HUAXINRONG EFS-14E12H (140mm, 12V, 0.30A, Rifle Bearing Fan)
5VSB Circuit	-
Rectifier	1x ES2J SBR (50V, 2A)
Standby PWM Controller	XLSEMI XL2576S

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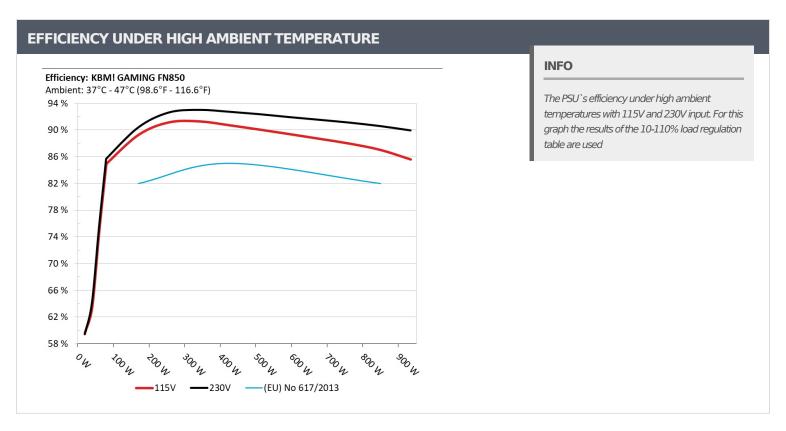
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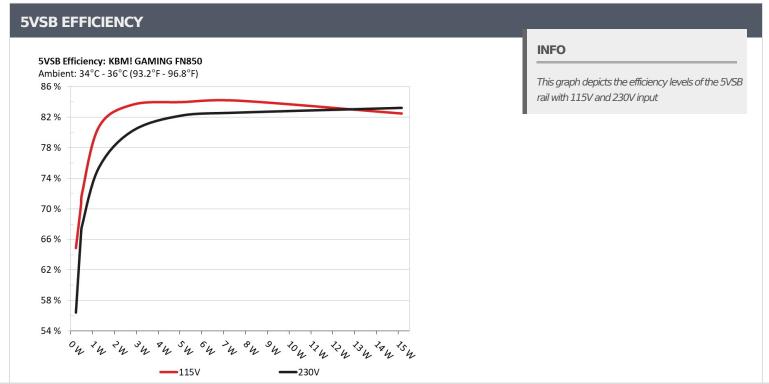
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5VSB EFFICIENCY -115V (ERP LOT 3/6 & CEC)				
Test #	5VSB	DC/AC (Watts)	Efficiency	PF/AC Volts
-	0.045A	0.232W	C4 2010/	0.034
1	5.147V	0.36W	64.391%	114.94V
2	0.09A	0.463W	CO 000/	0.061
2	5.145V	0.662W	69.98%	114.94V
2	0.55A	2.822W	02.1.40/	0.252
3	5.131V	3.394W	83.14%	114.94V
	1A	5.117W	02.4040/	0.352
4	5.117V	6.128W	83.484%	114.9V
_	1.5A	7.653W		0.397
5	5.102V	9.146W	83.672%	114.91V
C	ЗА	15.161W		0.468
6	5.054V	18.492W	81.991%	114.9V

5VSB EFFICIENCY -230V (ERP LOT 3/6 & CEC)				
Test #	5VSB	DC/AC (Watts)	Efficiency	PF/AC Volts
1	0.045A	0.232W	FF 0F10/	0.012
1	5.149V	0.415W	55.951%	229.88V
2	0.09A	0.463W	66.1000/	0.019
2	5.147V	0.701W	66.108%	229.88V
	0.55A	2.821W	70 70/	0.094
3	5.13V	3.539W	79.7%	229.91V
	1A	5.116W	01 7000/	0.157
4	5.116V	6.259W	81.728%	229.91V
5	1.5A	7.651W		0.197
	5.1V	9.32W	82.087%	229.9V
6	3A	15.16W	82.708%	0.306
	5.054V	18.33W		229.89V

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Anex

115V

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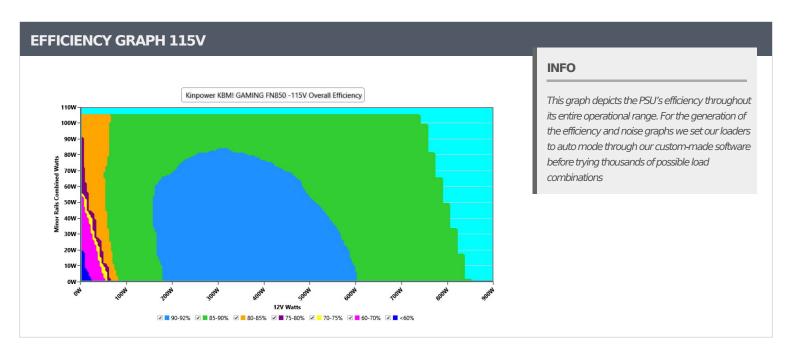
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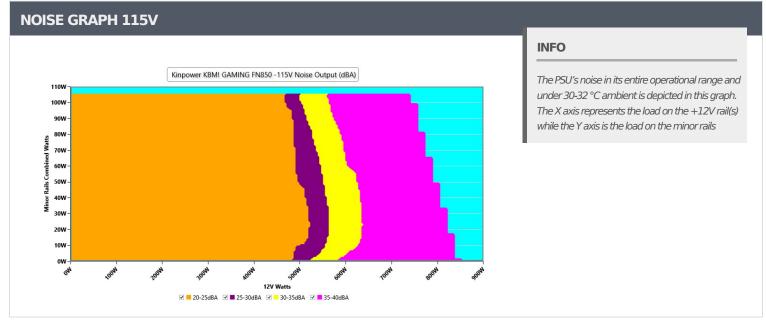
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VAMPIRE POWER -115V											
Detailed Results											
	Average	Min	Limit Min	Max	Limit Max	Result					
Mains Voltage RMS:	115.04 V	115.00 V	113.85 V	115.08 V	116.15 V	PASS					
Mains Frequency:	60.00 Hz	59.99 Hz	59.40 Hz	60.01 Hz	60.60 Hz	PASS					
Mains Voltage CF:	1.416	1.415	1.340	1.418	1.490	PASS					
Mains Voltage THD:	0.13 %	0.09 %	N/A	0.19 %	2.00 %	PASS					
Real Power:	0.046 W	0.010 W	N/A	0.072 W	N/A	N/A					
Apparent Power:	10.863 W	10.741 W	N/A	11.012 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
100/	5.212A	1.982A	1.991A	0.979A	84.998	04.01.70/	0.40	22.5	40.09°C	0.967
10%	12.165V	5.044V	3.314V	5.11V	100.096	84.917%	849	22.5	44.33°C	114.88V
200/	11.436A	2.981A	2.998A	1.178A	169.933	00.2400/	040	22.5	40.61°C	0.986
20%	12.157V	5.032V	3.302V	5.095V	190.409	89.248%	849	22.5	45.14°C	114.85V
200/	18.007A	3.484A	3.508A	1.378A	254.942	01 1100/	051	22.0	41.32°C	0.992
30%	12.156V	5.023V	3.292V	5.082V	279.797	91.119%	851	22.9	46.38°C	114.82V
400/	24.604A	3.989A	4.02A	1.579A	340.026	01 20 40/	050	22.7	41.51°C	0.994
40%	12.145V	5.014V	3.283V	5.068V	372.492	91.284%	850	22.7	47.05°C	114.79V
F00/	30.845A	4.998A	5.044A	1.781A	424.834	00.7010/	1200	21.0	42.39°C	0.994
50%	12.136V	5.003V	3.271V	5.053V	468.386	90.701%		31.0	48.41°C	114.76\
C00/	37.077A	6.011A	6.075A	1.985A	509.367	00.0530/	90.053% 1399	25.1	42.57°C	0.994
60%	12.125V	4.991V	3.26V	5.038V	565.634	90.053%		35.1	49.14°C	114.73\
700/	43.391A	7.03A	7.113A	2.19A	594.685	00.2050/	89.365% 1586	38.9	43.36°C	0.995
70%	12.112V	4.979V	3.248V	5.023V	665.46	89.305%			50.52°C	114.7V
000/	49.712A	8.053A	8.161A	2.295A	679.524	00.6E00/	1646	20.7	43.74°C	0.996
80%	12.102V	4.966V	3.235V	5.011V	766.445	88.659%	1646	39.7	52.01°C	114.67\
000/	56.431A	8.573A	8.682A	2.4A	764.945	- 07.0200/	1646	39.7	44.65°C	0.996
90%	12.094V	4.956V	3.225V	4.999V	869.96	87.928%	1646		53.68°C	114.62\
1000/	62.892A	9.098A	9.241A	3.018A	849.764	06 0070/	1647	20.7	45.79°C	0.997
100%	12.085V	4.946V	3.214V	4.97V	976.783	86.997%	1647	39.7	55.84°C	114.6V
110%	69.230A	10.137A	10.408A	3.025A	934.339	85.579%	1642	39.6	46.59°C	0.994
110%	12.077V	4.931V	3.199V	4.959V	1091.81	05.579%	1042	<u></u>	57.51°C	114.56V
CI 1	0.115A	12.467A	12.622A	0A	104.295	— 70 1100/	962	24.2	37.14°C	0.977
CL1	12.166V	4.972V	3.241V	5.128V	131.826	79.118%	862	24.3	42.65°C	114.86\
CL2	0.114A	20.129A	0A	0A	101.336	78.583%	849	22.5	40.02°C	0.976
CLZ	12.162V	4.965V	3.273V	5.132V	128.951	/0.30370	049		47.12°C	114.87\
CL3	0.114A	0A	20.512A	0A	67.395	— 71 2020/	840	21.0	41.44°C	0.965
CL3	12.162V	4.993V	3.218V	5.132V	94.517	71.303%	040	Z1.U	50.55°C	114.87\
CL4	70.272A	0A	0A	0A	849.52	88.056%	1659	39.8	46.35°C	0.997
CL4	12.089V	5.004V	3.266V	5.078V	964.761	00.03070	1009	29.0	57.27°C	114.61V

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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	1.220A	0.494A	0.495A	0.195A	19.992	·- · ·		21.8	36.8°C	0.851
20W	12.164V	5.061V	3.332V	5.139V	33.532	59.624%	845		39.85°C	114.91V
40144	2.686A	0.692A	0.694A	0.292A	39.992	an nam.	847	22.2	37.4°C	0.944
40W	12.168V	5.057V	3.327V	5.134V	63.108	63.367%			40.67°C	114.9V
COM	4.152A	0.89A	0.893A	0.39A	59.993	74.7000/		22.4	38.38°C	0.956
60W	12.168V	5.054V	3.324V	5.13V	80.203	74.799%	848		42.14°C	114.89V
00147	5.615A	1.089A	1.093A	0.488A	79.937	04.0610/	040	22.4	39.72°C	0.964
80W	12.166V	5.051V	3.32V	5.126V	94.088	84.961%	848	22.4	43.7°C	114.88V

RIPPLE MEA	SUREMENTS 115V				
Test	12V	5V	3.3V	5VSB	Pass/Fail
10% Load	21.33mV	17.37mV	21.33mV	16.42mV	Pass
20% Load	22.82mV	20.64mV	20.21mV	17.18mV	Pass
30% Load	19.48mV	21.61mV	18.72mV	15.19mV	Pass
40% Load	19.64mV	23.25mV	18.98mV	17.39mV	Pass
50% Load	19.19mV	24.01mV	20.00mV	17.34mV	Pass
60% Load	19.60mV	26.21mV	19.64mV	16.57mV	Pass
70% Load	20.67mV	27.02mV	19.28mV	17.44mV	Pass
80% Load	21.33mV	30.55mV	21.38mV	17.80mV	Pass
90% Load	22.10mV	31.01mV	22.66mV	18.57mV	Pass
100% Load	30.90mV	31.48mV	25.29mV	21.02mV	Pass
110% Load	31.41mV	34.78mV	26.64mV	25.34mV	Pass
Crossload1	23.78mV	42.94mV	26.88mV	15.84mV	Pass
Crossload2	17.96mV	24.27mV	16.73mV	15.60mV	Pass
Crossload3	22.82mV	42.91mV	23.89mV	15.55mV	Pass
Crossload4	29.91mV	16.28mV	17.48mV	18.63mV	Pass

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# 230V

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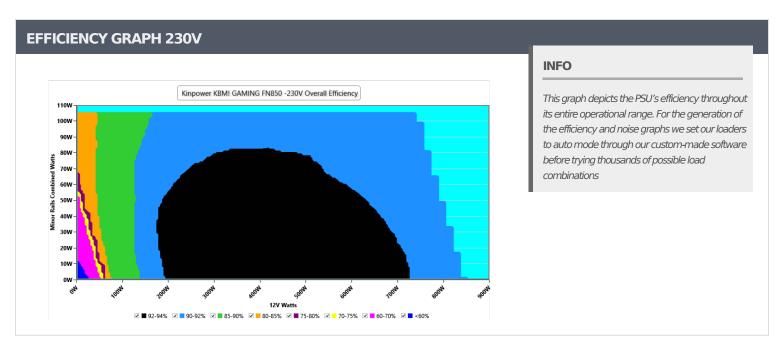
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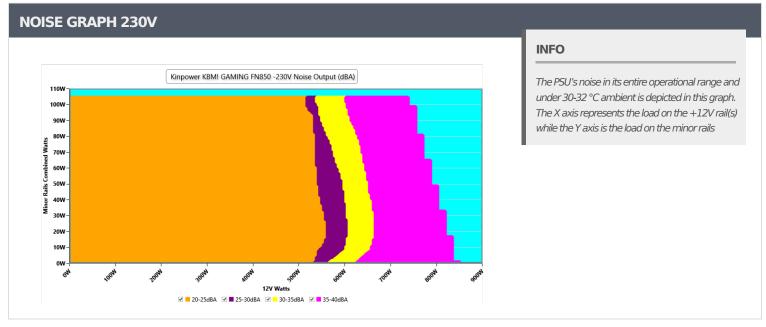
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VAMPIRE POWER -230V											
Detailed Results											
	Average	Min	Limit Min	Max	Limit Max	Result					
Mains Voltage RMS:	230.98 V	230.87 V	227.70 V	231.02 V	232.30 V	PASS					
Mains Frequency:	50.00 Hz	49.99 Hz	49.50 Hz	50.01 Hz	50.50 Hz	PASS					
Mains Voltage CF:	1.417	1.416	1.340	1.419	1.490	PASS					
Mains Voltage THD:	0.17 %	0.15 %	N/A	0.26 %	2.00 %	PASS					
Real Power:	0.115 W	0.099 W	N/A	0.142 W	N/A	N/A					
Apparent Power:	36.555 W	36.290 W	N/A	36.852 W	N/A	N/A					
Power Factor:	0.003	N/A	N/A	N/A	N/A	N/A					

#### INFO

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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
10%	5.212A	1.982A	1.991A	0.979A	85.002	OF 70/	844	21.6	40.22°C	0.82
10%	12.164V	5.045V	3.315V	5.108V	99.144	85.7%	044	21.0	44.51°C	229.88\
20%	11.439A	2.98A	2.998A	1.178A	169.942	90.396%	846	21.9	40.84°C	0.925
2070	12.155V	5.033V	3.303V	5.094V	187.995	90.390%	040	21.9	45.36°C	229.86\
30%	18.011A	3.483A	3.507A	1.378A	254.95	02.6240/	847	22.2	41.09°C	0.955
30%	12.154V	5.024V	3.294V	5.08V	275.255	92.624%	047		46.13°C	229.84\
400/	24.606A	3.989A	4.02A	1.579A	340.043	- 02.0200/	040	22.5	41.89°C	0.969
40%	12.145V	5.015V	3.284V	5.066V	365.513	93.029%	849	22.5	47.4°C	229.84\
50%	30.850A	4.998A	5.044A	1.782A	424.864	92.751%	1198	21.0	42.38°C	0.977
30%	12.135V	5.003V	3.272V	5.052V	458.072	92.751%		31.0	48.42°C	229.82\
600/	37.087A	6.011A	6.074A	1.986A	509.412	- 02.2000/	1345	34.2	42.65°C	0.981
60%	12.123V	4.991V	3.26V	5.037V	551.377	92.388%			49.17°C	229.8V
70%	43.400A	7.031A	7.114A	2.191A	594.735	91.946%	1550	38.1	43.17°C	0.984
70%	12.111V	4.979V	3.248V	5.022V	646.824	91.940%	1552		50.21°C	229.78
000/	49.721A	8.054A	8.162A	2.296A	679.56	— 01 F270/	1646	20.7	43.99°C	0.986
80%	12.101V	4.966V	3.235V	5.01V	742.386	91.537%	1040	39.7	52.01°C	229.77
000/	56.441A	8.575A	8.685A	2.401A	764.979	- 01 1120/	1644	20.7	44.87°C	0.988
90%	12.092V	4.956V	3.224V	4.998V	839.599	91.112%	1644	39.7	53.89°C	229.76\
1000/	62.905A	9.098A	9.242A	3.019A	849.794	- 00 F000/	1644	20.7	45.72°C	0.989
100%	12.083V	4.945V	3.214V	4.968V	937.982	90.598%	1644	39.7	55.79°C	229.74
1100/	69.244A	10.138A	10.411A	3.025A	934.358	- 00 0E60/	1642	20.6	46.58°C	0.99
110%	12.074V	4.931V	3.199V	4.958V	1038.687	89.956%	1643	39.6	57.5°C	229.72\
Cl 1	0.115A	12.471A	12.629A	0A	104.3	70.0100/	1122	20.2	43.31°C	0.873
CL1	12.165V	4.971V	3.239V	5.128V	130.675	79.819%	1123	29.2	48.81°C	229.87
CL2	0.114A	20.133A	0A	0A	101.34	70.0050/	046	21.0	42.11°C	0.87
CLZ	12.166V	4.964V	3.271V	5.132V	128.272	79.005%	846	21.9	49.15°C	229.87
CI 2	0.114A	0A	20.535A	0A	67.396	71.6070/	025	20.6	41.68°C	0.809
CL3	12.162V	4.992V		835	20.6	50.71°C	229.88			
CI 4	70.285A	0A	0A	0A	849.546	01.4500/	1650	39.8	44.74°C	0.989
CL4 12.087\	12.087V	5.003V	3.267V	5.078V	928.919	91.456%	1658		55.66°C	229.74

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Anex KBM! Gaming FN850

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	1.220A	0.494A	0.495A	0.195A	19.998			21.4	36.56°C	0.497
20W	12.162V	5.061V	3.332V	5.138V	33.686	59.435%	843		39.65°C	229.88V
40144	2.686A	0.692A	0.694A	0.292A	39.997	24.22	843	21.4	37.66°C	0.706
40W	12.167V	5.057V	3.327V	5.132V	62.403	64.095%			40.95°C	229.88V
COM	4.152A	0.89A	0.893A	0.39A	59.997	75 40 40 /		21.8	38.75°C	0.77
60W	12.168V	5.054V	3.324V	5.128V	79.483	75.484%	845		42.29°C	229.87V
00147	5.616A	1.089A	1.093A	0.488A	79.945	05 6630/	045	21.0	38.34°C	0.806
80W	12.163V	5.052V	3.321V	5.125V	93.328	85.662%	845	21.8	42.19°C	229.87V

RIPPLE MEA	SUREMENTS 230V				
Test	12V	5V	3.3V	5VSB	Pass/Fail
10% Load	13.56mV	11.60mV	14.53mV	8.85mV	Pass
20% Load	20.98mV	16.61mV	15.50mV	12.13mV	Pass
30% Load	19.53mV	17.93mV	15.60mV	12.27mV	Pass
40% Load	14.80mV	16.25mV	12.74mV	11.26mV	Pass
50% Load	14.63mV	20.18mV	14.94mV	13.09mV	Pass
60% Load	13.80mV	21.05mV	14.27mV	12.58mV	Pass
70% Load	16.53mV	22.48mV	15.09mV	13.50mV	Pass
80% Load	16.47mV	24.63mV	18.88mV	14.12mV	Pass
90% Load	18.01mV	24.93mV	19.80mV	14.58mV	Pass
100% Load	25.45mV	26.54mV	20.23mV	16.26mV	Pass
110% Load	27.75mV	29.39mV	22.01mV	21.87mV	Pass
Crossload1	20.25mV	38.80mV	24.66mV	12.42mV	Pass
Crossload2	14.78mV	21.36mV	17.50mV	13.35mV	Pass
Crossload3	18.42mV	33.05mV	19.80mV	13.09mV	Pass
Crossload4	23.71mV	12.20mV	12.87mV	15.25mV	Pass

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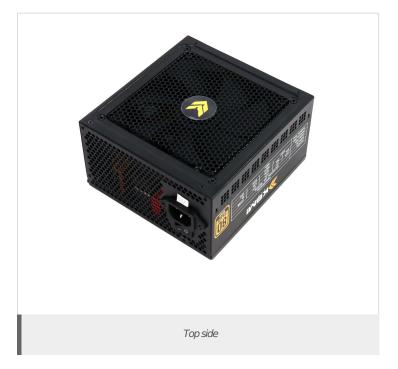
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Anex KBM! Gaming FN850









**Aristeidis Bitziopoulos**Lab Director

#### **CERTIFICATIONS 230V**





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