FSP Technology VITA GM 850W

S4021000092

Lab ID FS85002470

ID 252470

ID: 24PS2470A

: Jun 11, 2024

ETA-EMI PSU

115V



230V



115V



230V



LAMBDA PSU





General Information

Test Equipment

Electronic Loads	Chroma 63601-5 x2 Chroma 63600-2 Chroma 63640-80-80 x10 Chroma 63610-80-20
AC Sources	Chroma 6530, APM SP300VAC4000W-P, GW Instek ASR-3500
Power Analyzers	Rohde & Schwarz HMC8015 & NPA701
Oscilloscopes	Picoscope 4444, 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
EMI Analyzer	TekBox TBMR-110M-EU
Isolation Transformer	4kVA
UPS	FSP Champ Tower 3kVA, CyberPower OLS3000E 3kVA
Testing Methodology	Cybenetics PSU Test Protocol

DUT Information
(Non-accredited measurements)

Product Identification Details	
Brand	FSP Technology
Model	VITA GM 850W
OEM/ODM	FSP
Serial Number	S4021000092
Product Specifications	
Manufacturer-Provided Information	
□□□□ (Vrms)	100-240

□□□□ (Arms)	5.5-11
□□□□ (Hz)	50-60
□□□□ (W)	850
□□□□□□□□□□ (°C)	
□□	ATX12V
□□□□	Fully Modular
□□	-
Cybenetics Measurements	
Dimensions (W x H x D)	
□□	
□□	120mm Rifle Bearing Fan (D12SH-12)
□□□□□	✗
Cybenetics Testing Information	
Lab ID	FS85002470
Date of receipt	May 21, 2024
Testing Date	Jun 11, 2024
Report Issued Date	Jun 11, 2024
Engineer Name	-
Authorized By the Laboratory Technical Manager	Aristeidis Bitziopoulos
Signature	

□□□□□
(Non-accredited measurements)

□□□□□				
□□	□□□□	□□□□□□	**Gauge**	In Cable Capacitors
ATX □□ 20+4 pin (600mm)	1	1	18-22AWG	□
4+4 EPS12V□□ (700mm)	2	2	16AWG	□
6+2 pin PCIe□□ (650mm+150mm)	2	4	16-18AWG	□
12+4 pin PCIe (700mm) (600W)	1	1	16-24AWG	□

SATA□□ (500mm+150mm+150mm+150mm)	1	4	18AWG	□
SATA□□ (500mm+150mm) / 4-pin Molex (+155mm+100mm)	2	4 / 4	18-20AWG	□
AC Power Cord (1350mm) - C13 coupler	1	1	18AWG	-

□□□□

Over Power Protection	✓
Over Current (+12V) Protection	✓
Over Temperature Protection	✓
Short Circuit Protection	✓
Surge Protection	✓
Inrush Current Protection	✓
Fan Failure Protection	✗

□□□□

□□□		3.3V	5V	12V	5VSB	-12V
□□□□	□□	20	20	70.83	3	0.3
	□	100		850	15	3.6
□□□□□ (W)		850				

Parts Description

General Data	
Manufacturer (OEM)	FSP
PCB Type	Double-Sided
Primary Side	
Transient Filter	4x Y caps, 2x X caps, 2x CM chokes, 1x MOV
Inrush Protection	1x NTC Thermistor SCK-056 (5 Ohm) & Relay
Bridge Rectifier(s)	2x GBU1506 (600V, 15A @ 100°C)
APFC MOSFETs	2x GP36S60YERD

APFC Boost Diode	1x Toshiba TRS8E65F (650V, 8A, @ 175°C)
Bulk Cap(s)	1x Nippon Chemi-con (450V, 680uF, 3,000h @ 105°C, KHS)
Main Switchers	2x Toshiba TK25A60X5 (600V, 25A, @ 150°C, Rds(on): 0.14Ohm)
APFC Controller	Champion CM6500UNX
Resonant Controller	Champion CU6901VPA
Topology	Primary side: APFC, Half-Bridge & LLC converter Secondary side: Synchronous Rectification & DC-DC converters
Secondary Side	
+12V MOSFETs	6x CYStek MTB1D6NO4RH8 (40V, 84A @ 100°C, Rds(on): 1.8mOhm)
5V & 3.3V	DC-DC Converters: 4x XSEMI XP3R303GMT-L (30V, 25A @ 70°C, Rds(on): 3.3mOhm) PWM Controller(s): UPI uP3861P
Filtering Capacitors	Electrolytic: 4x Nippon Chemi-Con (105°C, W) 2x Nippon Chemi-Con (1-5,000h @ 105°C,KZE), 2x Nippon Chemi-Con (5-6,000h @ 105°C, ZKH), Polymer: 4x Nippon Chemi-Con, 2x Apaq, 26x
Supervisor IC	IN1T703I-SDG
Fan Model	Yate Loon D12SH-12 (120mm, 12V, 0.30A, Rifle Bearing Fan)
5VSB Circuit	
TVS Diode	1x SMAJ15A
High Side Rectifier	US1MGR (1000V, 1A)
Standby PWM Controller	Grenery GR9230UK

Test Results

Temperature & Compliance Info

□□□□ (°C /°F)	28-32 / 82.4-89.6
□□ ErP Lot 3/6	✓
□□ (EU) No 617/2013□□	✓
□□ ALPM□ Alternative Low Power Mode□	✓
ATX v3.1 PSU □□□□	✓

Performance Summary

115V

Accredited	
□□□□ (>1450 load combinations)	90.089%
Average Noise Output (>1450 Load Combinations)	21.74dBA
PF□□□ (>1450 Load Combinations)	0.978
Efficiency With 10W (≤500W) or 2% (>500W) Load	69.552%
□□□□	0.0475W
Non-Accredited	
12V Ripple (Full Load)	21.80mV
5V Ripple (Full Load)	14.16mV
3.3V Ripple (Full Load)	18.45mV
5VSB Ripple (Full Load)	19.77mV
12V Load Regulation	0.54%
5V Load Regulation	1.39%
3.3V Load Regulation	2.34%
5VSB Load Regulation	2.41%
Inrush Current	32.270A

230V

Accredited	
□□□□ (>1450 load combinations)	92.157%
Average Noise Output (>1450 Load Combinations)	21.15dBA
PF□□□ (>1450 Load Combinations)	0.938
Efficiency With 10W (≤500W) or 2% (>500W) Load	67.428%
□□□□	0.1404W
Non-Accredited	
12V Ripple (Full Load)	22.26mV
5V Ripple (Full Load)	13.24mV
3.3V Ripple (Full Load)	18.79mV

5VSB Ripple (Full Load)		17.59mV
12V Load Regulation		0.56%
5V Load Regulation		1.41%
3.3V Load Regulation		2.40%
5VSB Load Regulation		2.43%
Inrush Current		65.070A
12V Transient Response (200%)		11.50V
5V Transient Response (200%)		4.988V
3.3V Transient Response (200%)		3.187V
5VSB Transient Response (200%)		4.928V
□□□□ & PWR_OK □□		20.20ms
AC Loss to PWR_OK Hold Up Time		14.80ms
PWR_OK Inactive to DC Loss Delay		5.40ms
PSU Timings: T1 (20% / 100%)	49.0ms	49.0ms
PSU Timings: T3 (20% / 100%)	113.0ms	114.0ms
12V OCP (27.2°C / 41.7°C)	79.20A (111.82%), 12.007V	75.60A (106.73%), 12.027V
5V OCP (27.2°C / 41.7°C)	25.4A (127.00%), 5.071V	25.1A (125.50%), 5.072V
3.3V OCP (27.2°C / 41.7°C)	25.1A (125.50%), 3.327V	24.9A (124.50%), 3.327V
5VSB OCP (27.2°C / 41.7°C)	4A (133.33%), 4.987V	4A (133.33%), 4.993V
OPP (27.09°C / 41.93°C)	121.48%	116.77%

□□□□ & PWR_OK □□

Hold-Up Time (ms)	20.2
AC Loss to PWR_OK Hold Up Time (ms)	14.8
PWR_OK Inactive to DC Loss Delay (ms)	5.4

Tables

115V

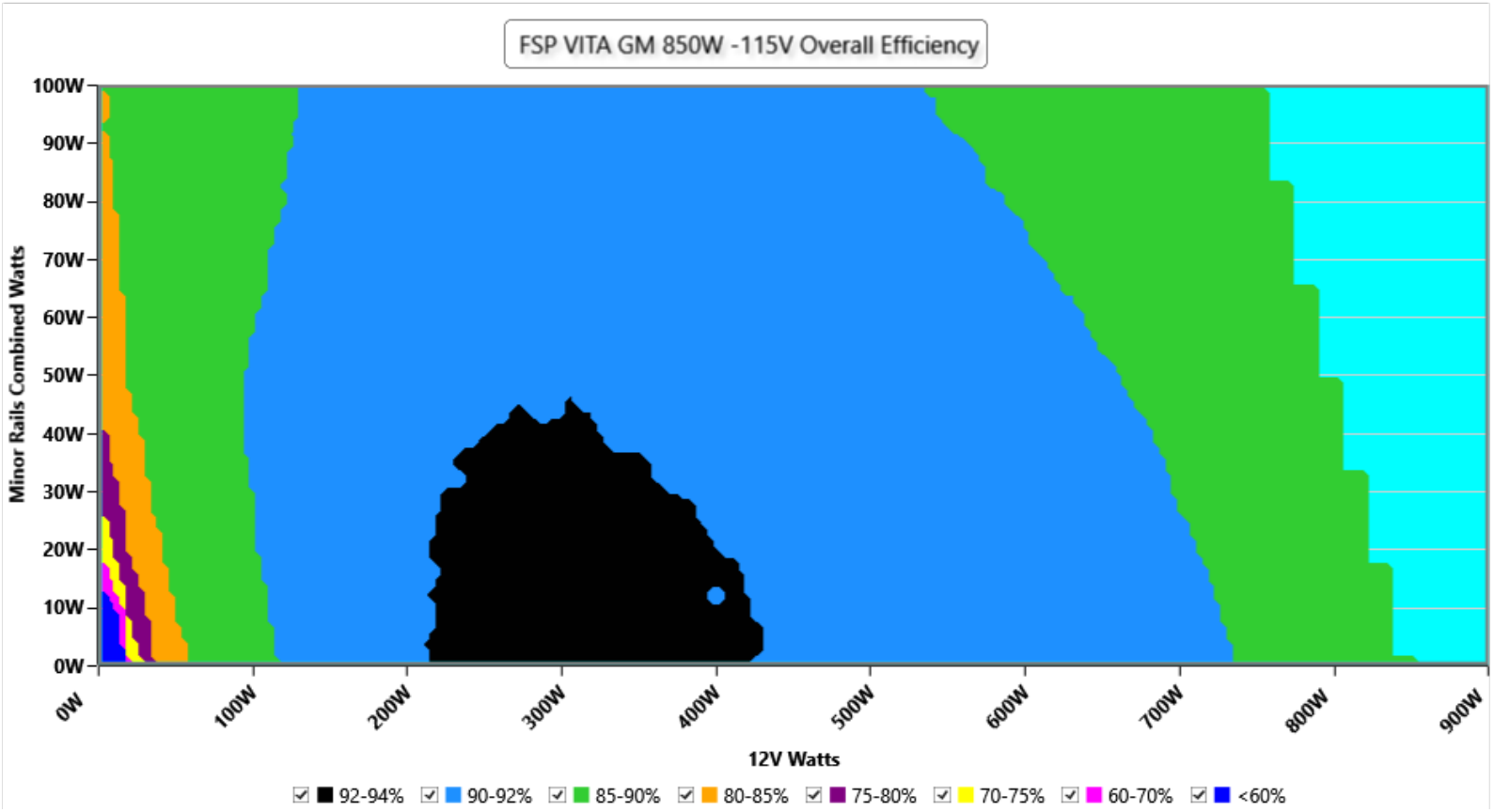
Detailed Results						
	Average	Min	Limit Min	Max	Limit Max	Result
Mains Voltage RMS:	115.08 V	115.04 V	113.85 V	115.11 V	116.15 V	PASS
Mains Frequency:	60.00 Hz	59.96 Hz	59.40 Hz	60.03 Hz	60.60 Hz	PASS
Mains Voltage CF:	1.416	1.415	1.340	1.418	1.490	PASS
Mains Voltage THD:	0.13 %	0.09 %	N/A	0.19 %	2.00 %	PASS
Real Power:	0.048 W	0.005 W	N/A	0.087 W	N/A	N/A
Apparent Power:	13.056 W	12.996 W	N/A	13.124 W	N/A	N/A
Power Factor:	0.003	N/A	N/A	N/A	N/A	N/A

230V

Detailed Results						
	Average	Min	Limit Min	Max	Limit Max	Result
Mains Voltage RMS:	231.02 V	230.94 V	227.70 V	231.09 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	1.418	1.490	PASS
Mains Voltage THD:	0.17 %	0.14 %	N/A	0.24 %	2.00 %	PASS
Real Power:	0.140 W	0.102 W	N/A	0.191 W	N/A	N/A
Apparent Power:	44.720 W	44.456 W	N/A	44.984 W	N/A	N/A
Power Factor:	0.003	N/A	N/A	N/A	N/A	N/A

□□□□□□

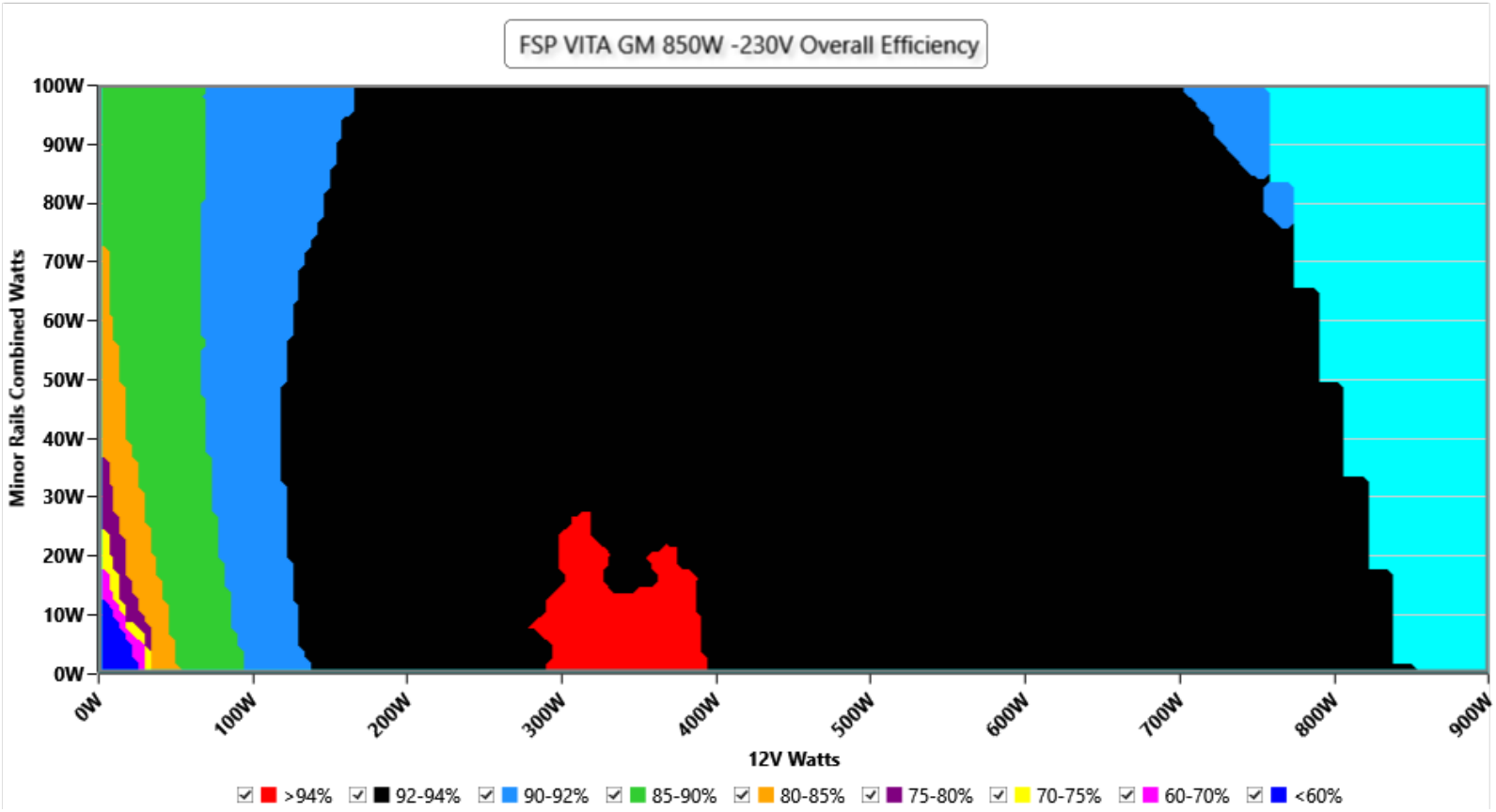
115V



□□

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

230V



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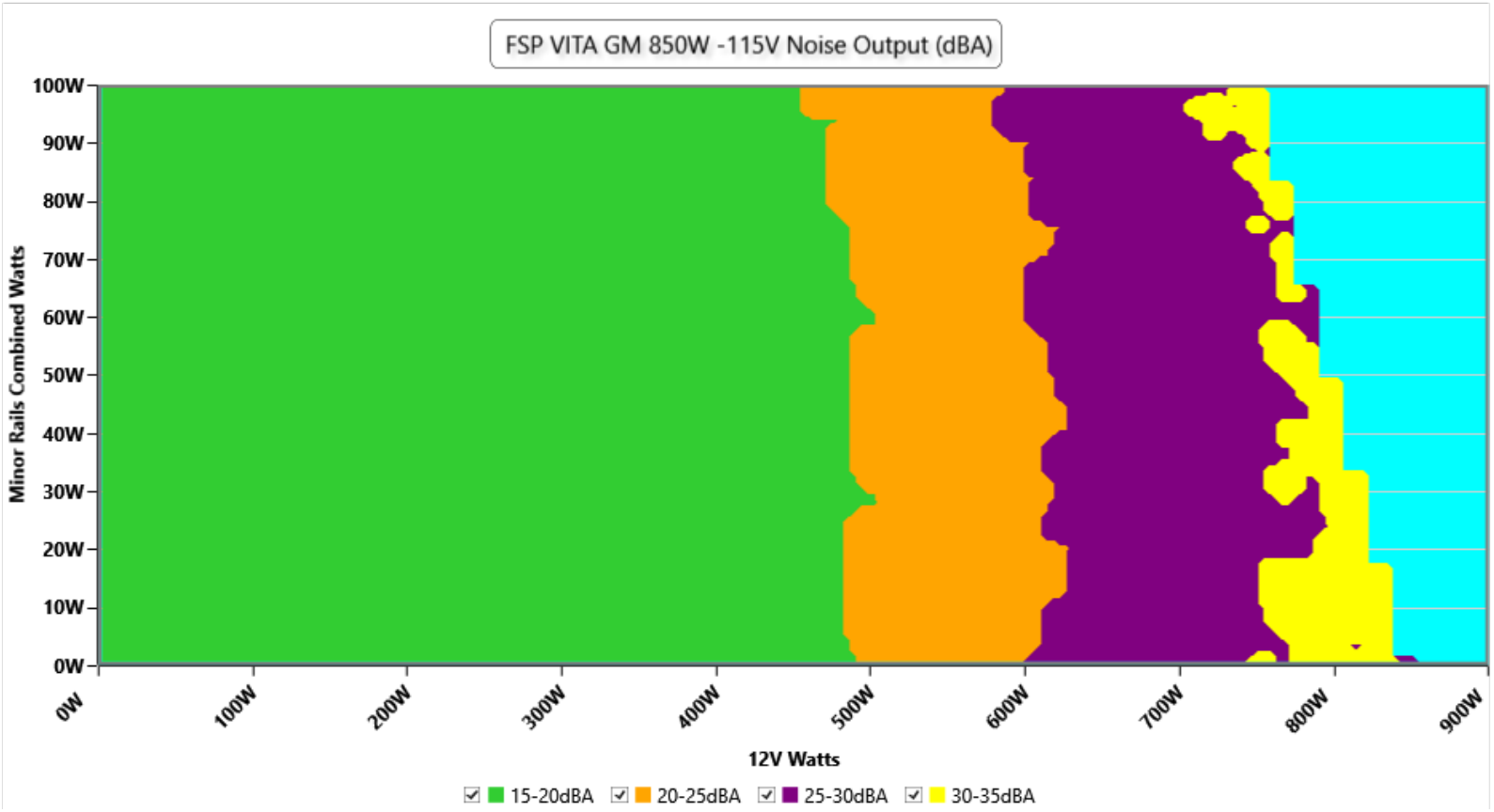
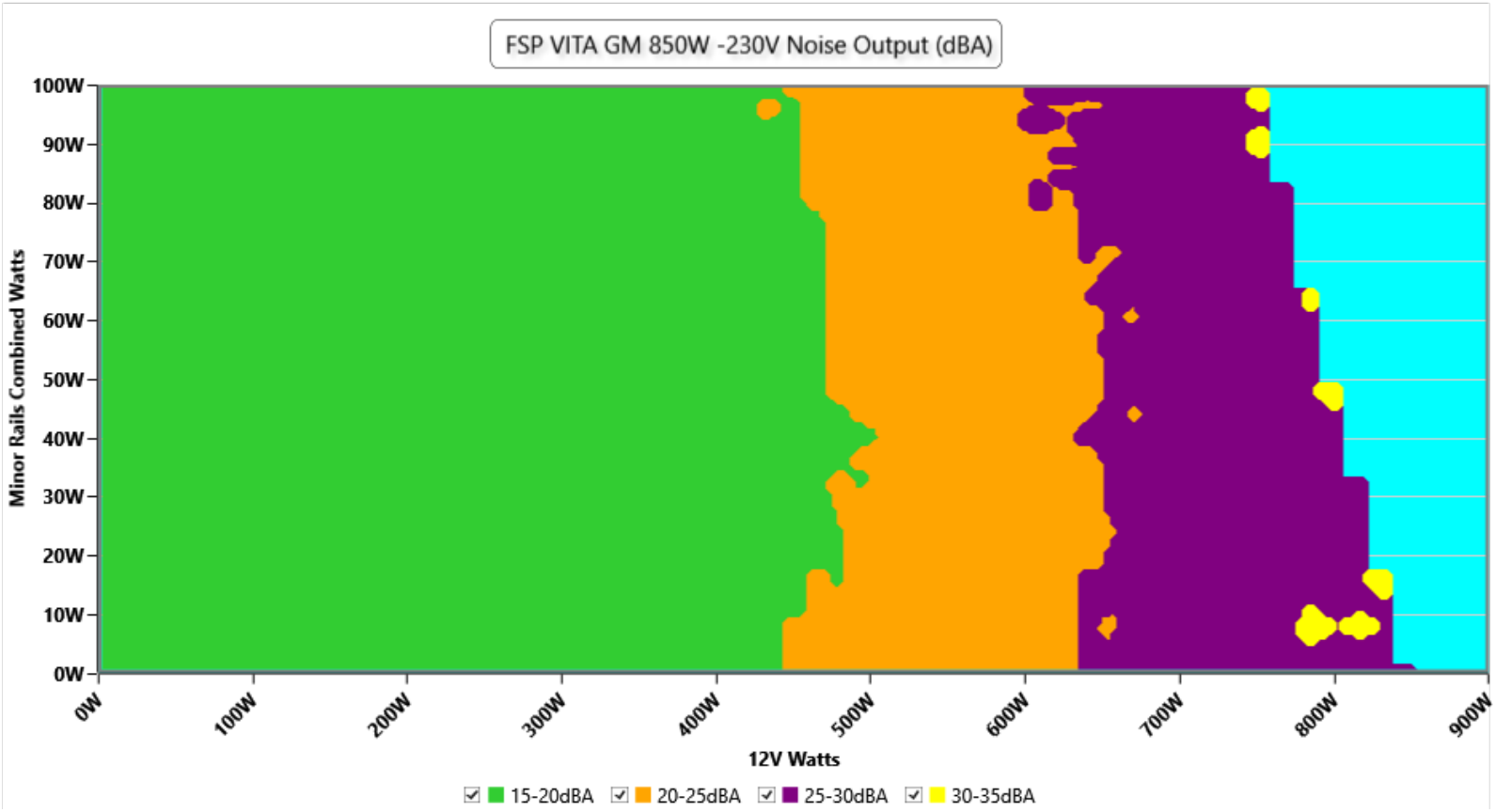
115V



□□

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

230V



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

Noise under high ambient temperature (indicative)

115V

Load	Normal ambient fan · noise · intake	High ambient fan · noise · intake	Noise change
10%	728 RPM · 16.0 dB(A) · 30.9 °C	747 RPM · 16.8 dB(A) · 40.1 °C	**+0.8 dB(A)**
20%	730 RPM · 16.1 dB(A) · 30.3 °C	749 RPM · 16.9 dB(A) · 40.9 °C	**+0.8 dB(A)**
50%	730 RPM · 16.1 dB(A) · 30.3 °C	787 RPM · 17.4 dB(A) · 42.4 °C	**+1.3 dB(A)**
100%	730 RPM · 16.1 dB(A) · 30.9 °C	1522 RPM · 36.3 dB(A) · 45.2 °C	**+20.2 dB(A)**

230V

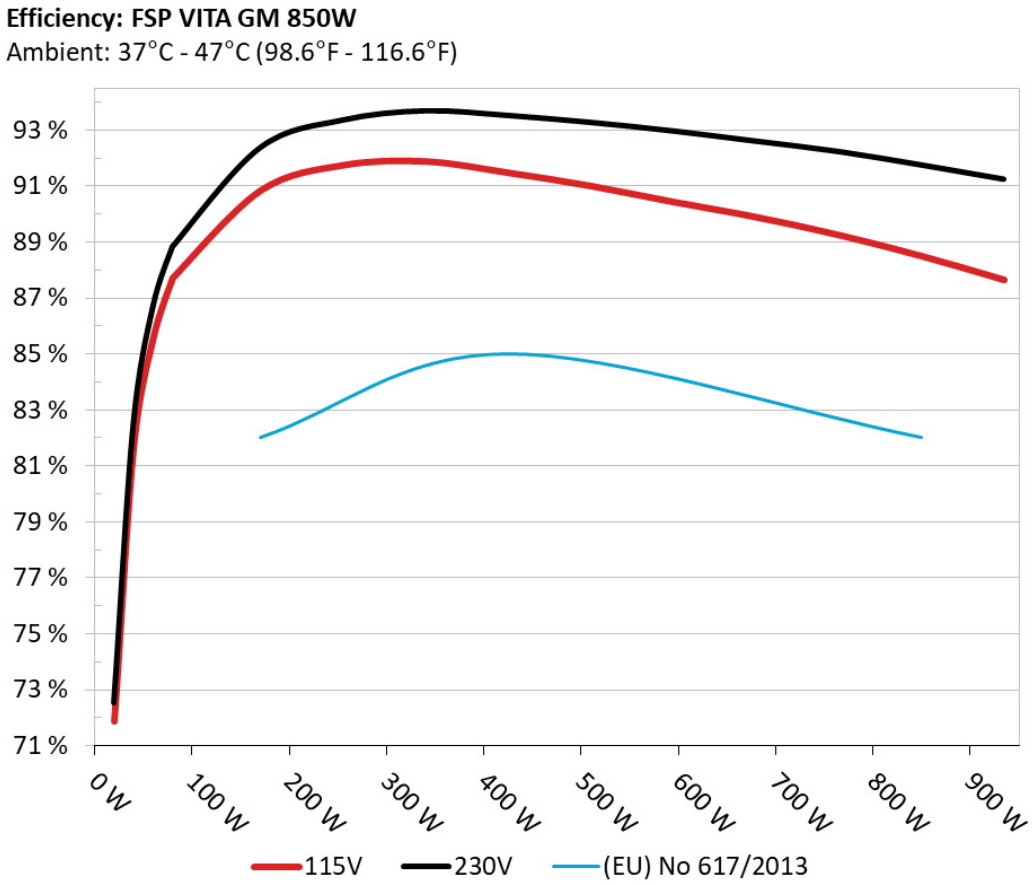
Load	Normal ambient fan · noise · intake	High ambient fan · noise · intake	Noise change
10%	726 RPM · 15.9 dB(A) · 29.9 °C	744 RPM · 16.7 dB(A) · 40.3 °C	**+0.8 dB(A)**
20%	730 RPM · 16.1 dB(A) · 30.2 °C	748 RPM · 16.8 dB(A) · 40.6 °C	**+0.7 dB(A)**
50%	736 RPM · 16.5 dB(A) · 30.4 °C	783 RPM · 17.2 dB(A) · 42.4 °C	**+0.7 dB(A)**
100%	1142 RPM · 28.7 dB(A) · 30.9 °C	1686 RPM · 39.7 dB(A) · 45.6 °C	**+11.0 dB(A)**

INFO

Fan speed, noise and the measured intake temperature at 10, 20, 50 and 100 % load, from the two load regulation tests: at normal ambient (about 30-32 °C) and at high ambient (about 40-47 °C). These are stabilized readings at fixed loads, not averages over the certification sweep, so they are indicative of how the fan behaves when it is hot. "<6.0" is the floor of our sound meter: the fan is stopped or too quiet to measure (the fan speed column says which); with the fan stopped, the intake sensor can read higher than the chamber air.

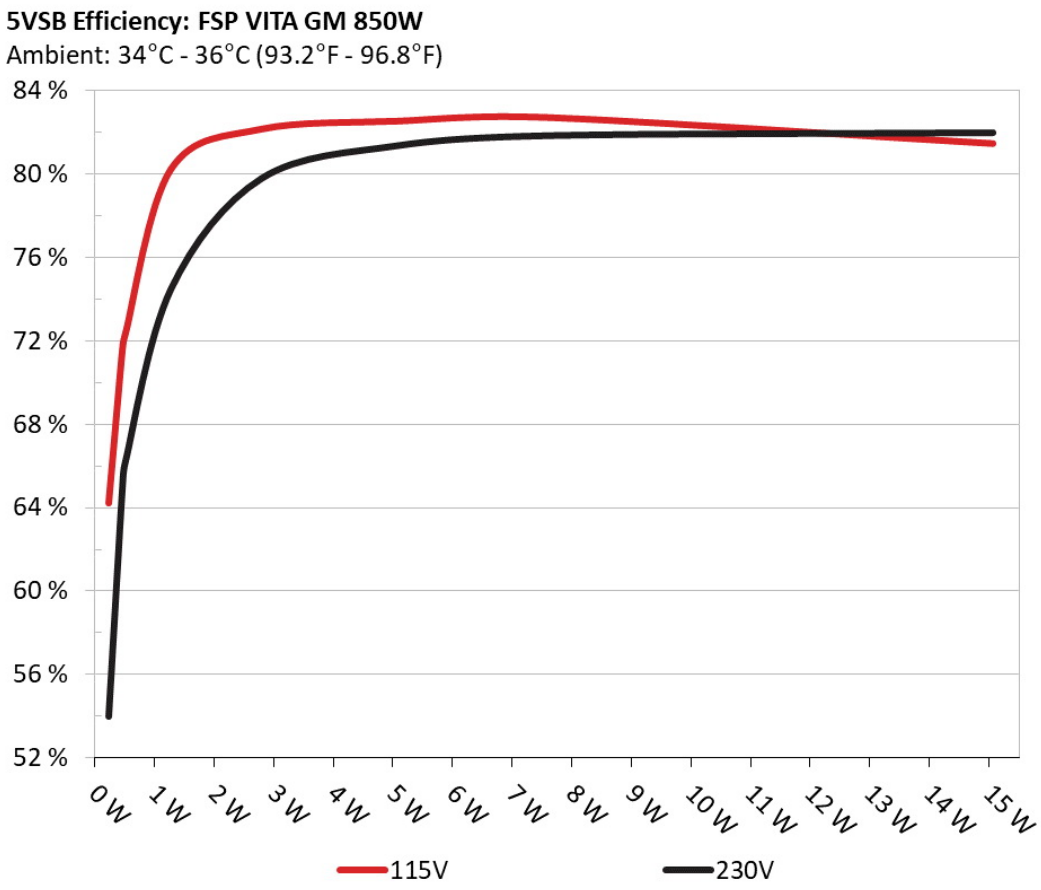
Informational. Not part of the ETA or LAMBDA rating.

Indicative Performance



The PSU`s efficiency under high ambient temperatures with 115V and 230V input. For this graph the results of the 10-110% load regulation table are used

5VSB□□



□□

This graph depicts the efficiency levels of the 5VSB rail with 115V and 230V input

5VSB□□□ ERP LOT 3/6□ CEC□

115V

□□ #	5VSB	DC/AC (□)	□□	PF/AC □□
1	**0.045A**	0.229W	64.244%	0.027
	5.095V	0.357W		114.87V
2	**0.09A**	0.458W	71.596%	0.049
	5.093V	0.64W		114.88V
3	**0.55A**	2.794W	82.134%	0.22
	5.081V	3.402W		114.86V
4	**1A**	5.07W	82.513%	0.323
	5.07V	6.144W		114.85V
5	**1.5A**	7.586W	82.687%	0.383
	5.057V	9.175W		114.86V
6	**3A**	15.058W	81.444%	0.468
	5.019V	18.488W		114.85V

230V

□□ #	5VSB	DC/AC (□)	□□	PF/AC □□
1	**0.045A**	0.229W	53.979%	0.01
	5.095V	0.425W		229.94V
2	**0.09A**	0.458W	64.949%	0.016
	5.093V	0.706W		229.94V
3	**0.55A**	2.794W	79.795%	0.077
	5.081V	3.503W		229.94V
4	**1A**	5.07W	81.361%	0.131
	5.07V	6.231W		229.94V
5	**1.5A**	7.586W	81.843%	0.183
	5.057V	9.269W		229.94V
6	**3A**	15.057W	81.982%	0.293
	5.019V	18.367W		229.94V

Protection Features

OCP (Cold @ 27.2°C)	12V: 79.2A (111.82%), 12.007V 5V: 25.4A (127%), 5.071V 3.3V: 25.1A (125.5%), 3.327V 5VSB: 4A (133.33%), 4.987V
OCP (Hot) @ 41.7°C)	12V: 75.6A (106.73%), 12.027V 5V: 25.1A (125.5%), 5.072V 3.3V: 24.9A (124.5%), 3.327V 5VSB: 4A (133.33%), 4.993V
OCP (Cold @ 27.1°C)	1032.61W (121.48%)
OCP (Hot @ 41.9°C)	992.59W (116.77%)
OTP	✓ (134°C @ Heat Sink)
SCP	12V to Earth: ✓ 5V to Earth: ✓ 3.3V to Earth: ✓ 5VSB to Earth: ✓ -12V to Earth: ✓
PWR_OK	Proper Operation
NLO	✓
Fan Failure Protection	✗
SIP	Surge: MOV Inrush: NTC & Bypass Relay

Supplementary Tests (For Reference)

□□□□□□

115V

□□	**12V**	**5V**	**3.3V**	**5VSB**	**DC/AC (□)**	□□	□□□□ **(RPM)**	**PSU □□ (dB[A])**	□□□□□□□□□	**PF/AC □□**
10%	**5.252A**	**1.955A**	**1.962A**	**0.986A**	85.001	87.543%	747	16.8	40.14°C	0.965
	12.071V	5.115V	3.364V	5.071V	97.097				41.95°C	114.83V

20%	**11.525A**	**2.937A**	**2.95A**	**1.185A**	169.932	90.815%	749	16.9	40.85°C	0.976
	12.063V	5.107V	3.355V	5.062V	187.119				43.07°C	114.8V
30%	**18.155A**	**3.431A**	**3.449A**	**1.386A**	254.935	91.728%	751	16.9	41.14°C	0.976
	12.056V	5.101V	3.348V	5.052V	277.927				44.49°C	114.77V
40%	**24.799A**	**3.926A**	**3.95A**	**1.587A**	340.022	91.863%	755	17	41.82°C	0.977
	12.050V	5.094V	3.341V	5.042V	370.139				46.3°C	114.75V
50%	**31.083A**	**4.915A**	**4.95A**	**1.789A**	424.832	91.46%	787	17.4	42.44°C	0.98
	12.043V	5.087V	3.333V	5.032V	464.494				48.49°C	114.71V
60%	**37.350A**	**5.907A**	**5.955A**	**1.992A**	509.36	90.99%	958	22.7	42.66°C	0.983
	12.036V	5.08V	3.325V	5.022V	559.801				49.92°C	114.69V
70%	**43.692A**	**6.903A**	**6.965A**	**2.195A**	594.685	90.417%	1079	26.4	43.39°C	0.985
	12.029V	5.072V	3.317V	5.012V	657.712				51.97°C	114.66V
80%	**50.042A**	**7.899A**	**7.979A**	**2.298A**	679.491	89.877%	1154	29	43.85°C	0.987
	12.022V	5.064V	3.308V	5.004V	756.02				54.29°C	114.62V
90%	**56.799A**	**8.404A**	**8.483A**	**2.402A**	764.921	89.233%	1264	31	44.85°C	0.987
	12.015V	5.057V	3.301V	4.996V	857.221				56.49°C	114.6V
100%	**63.296A**	**8.911A**	**9.019A**	**3.016A**	849.731	88.484%	1522	36.3	45.21°C	0.988
	12.007V	5.05V	3.293V	4.975V	960.332				57.62°C	114.56V
110%	**69.680A**	**9.917A**	**10.139A**	**3.019A**	934.296	87.637%	1827	41.9	46.17°C	0.989
	11.998V	5.042V	3.284V	4.969V	1066.093				59.06°C	114.53V
CL1	**0.115A**	**11.827A**	**11.881A**	**0A**	101.292	84.819%	851	20.2	40.27°C	0.973
	12.073V	5.09V	3.341V	5.097V	119.424				47.31°C	114.81V
CL2	**0.115A**	**19.664A**	**0A**	**0A**	101.386	83.524%	848	20.2	41.6°C	0.973
	12.073V	5.085V	3.357V	5.098V	121.384				45.6°C	114.81V
CL3	**0.115A**	**0A**	**19.784A**	**0A**	67.382	79.081%	791	17.6	40.09°C	0.964
	12.070V	5.103V	3.336V	5.094V	85.207				44.13°C	114.84V
CL4	**70.729A**	**0A**	**0A**	**0.001A**	849.551	89.046%	1635	38.1	45.28°C	0.988
	12.012V	5.071V	3.313V	5.06V	954.062				56.22°C	114.58V

230V

□□	12V	5V	3.3V	5VSB	DC/AC (□)	□□	□□□□ (RPM)	PSU □□ (dB[A])	□□□□□□□□□	PF/AC □□
10%	**5.253A**	**1.955A**	**1.962A**	**0.986A**	85.003	88.748%	744	16.7	40.26°C	0.817
	12.070V	5.117V	3.364V	5.071V	95.785				41°C	229.93V
20%	**11.527A**	**2.936A**	**2.95A**	**1.186A**	169.938	92.359%	748	16.8	40.63°C	0.91
	12.062V	5.109V	3.356V	5.061V	183.995				41.93°C	229.92V
30%	**18.158A**	**3.43A**	**3.449A**	**1.386A**	254.942	93.352%	749	16.9	41.17°C	0.939
	12.055V	5.103V	3.349V	5.051V	273.103				43.09°C	229.9V
40%	**24.804A**	**3.925A**	**3.95A**	**1.587A**	340.031	93.683%	751	16.9	41.62°C	0.952
	12.047V	5.096V	3.342V	5.041V	362.961				44.3°C	229.89V
50%	**31.090A**	**4.913A**	**4.95A**	**1.789A**	424.841	93.518%	783	17.2	42.39°C	0.96
	12.040V	5.089V	3.333V	5.031V	454.283				46.5°C	229.87V
60%	**37.359A**	**5.905A**	**5.955A**	**1.992A**	509.377	93.27%	937	21.9	42.84°C	0.965
	12.033V	5.082V	3.325V	5.021V	546.133				48.1°C	229.86V
70%	**43.704A**	**6.9A**	**6.966A**	**2.196A**	594.701	92.963%	1022	24.6	43.44°C	0.969
	12.026V	5.074V	3.317V	5.01V	639.718				48.96°C	229.85V
80%	**50.054A**	**7.896A**	**7.981A**	**2.299A**	679.513	92.6%	1187	29.2	43.74°C	0.972
	12.019V	5.066V	3.308V	5.002V	733.815				50.36°C	229.83V
90%	**56.812A**	**8.402A**	**8.484A**	**2.403A**	764.947	92.228%	1592	37.8	44.49°C	0.974
	12.013V	5.059V	3.3V	4.995V	829.414				51.8°C	229.82V
100%	**63.314A**	**8.908A**	**9.021A**	**3.017A**	849.761	91.748%	1686	39.7	45.64°C	0.975
	12.005V	5.051V	3.292V	4.973V	926.192				53.13°C	229.81V
110%	**69.701A**	**9.914A**	**10.141A**	**3.02A**	934.347	91.242%	1701	40	46.49°C	0.977
	11.995V	5.043V	3.283V	4.967V	1024.045				53.79°C	229.79V
CL1	**0.115A**	**11.822A**	**11.881A**	**0A**	101.296	85.978%	818	18.4	40.42°C	0.855
	12.071V	5.092V	3.341V	5.096V	117.819				47.43°C	229.92V
CL2	**0.115A**	**19.655A**	**0A**	**0A**	101.388	84.693%	785	17.3	41.02°C	0.857
	12.071V	5.088V	3.357V	5.097V	119.714				45.99°C	229.93V
CL3	**0.115A**	**0A**	**19.787A**	**0A**	67.383	79.814%	787	17.4	40.42°C	0.79
	12.068V	5.106V	3.335V	5.093V	84.427				44.19°C	229.93V

CL4	**70.747A**	**0A**	**0A**	**0.001A**	849.492	92.466%	1425	34.2	45.97°C	0.975
	12.008V	5.074V	3.313V	5.058V	918.701				51.61°C	229.81V

□□□□□□□□□□□

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115V

□□	12V	5V	3.3V	5VSB	DC/AC (□)	□□	□□□□ (RPM)	PSU □□ (dB[A])	□□□□□□□□□	PF/AC □□
20W	**1.231A**	**0.488A**	**0.49A**	**0.196A**	19.996	71.88%	736	16.5	36.46°C	0.855
	12.064V	5.12V	3.37V	5.095V	27.82				37.04°C	114.86V
40W	**2.710A**	**0.684A**	**0.686A**	**0.295A**	39.997	81.726%	737	16.5	37.11°C	0.928
	12.062V	5.118V	3.369V	5.091V	48.941				38.04°C	114.84V
60W	**4.186A**	**0.879A**	**0.882A**	**0.393A**	59.997	85.553%	741	16.6	38.43°C	0.947
	12.072V	5.117V	3.367V	5.088V	70.131				39.58°C	114.84V
80W	**5.659A**	**1.075A**	**1.078A**	**0.492A**	79.937	87.704%	743	16.7	39.67°C	0.964
	12.071V	5.117V	3.366V	5.085V	91.146				40.89°C	114.83V

□□□□□□□□□□□

230V

□□	12V	5V	3.3V	5VSB	DC/AC (□)	□□	□□□□ (RPM)	PSU □□ (dB[A])	□□□□□□□□□	PF/AC □□
20W	**1.231A**	**0.488A**	**0.489A**	**0.196A**	19.999	72.54%	734	16.4	36.81°C	0.459
	12.063V	5.122V	3.371V	5.094V	27.569				37.29°C	229.94V
40W	**2.710A**	**0.684A**	**0.686A**	**0.295A**	39.998	82.519%	736	16.5	37.78°C	0.642
	12.062V	5.121V	3.369V	5.09V	48.474				38.4°C	229.93V
60W	**4.186A**	**0.879A**	**0.882A**	**0.393A**	59.998	86.68%	738	16.5	38.86°C	0.741
	12.072V	5.12V	3.367V	5.087V	69.217				39.39°C	229.93V
80W	**5.659A**	**1.075A**	**1.078A**	**0.492A**	79.942	88.823%	740	16.6	39.11°C	0.803
	12.070V	5.119V	3.366V	5.084V	90				40.24°C	229.93V

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115V

Test	12V	5V	3.3V	5VSB	Pass/Fail
10% Load	15.5 mV	9.5 mV	10.2 mV	9.3 mV	Pass
20% Load	16.2 mV	10.5 mV	11.2 mV	10.0 mV	Pass
30% Load	13.8 mV	9.4 mV	10.6 mV	12.1 mV	Pass
40% Load	13.3 mV	23.6 mV	23.9 mV	11.7 mV	Pass
50% Load	13.4 mV	23.7 mV	20.7 mV	12.4 mV	Pass
60% Load	13.5 mV	13.3 mV	14.7 mV	13.8 mV	Pass
70% Load	15.1 mV	12.7 mV	14.5 mV	14.2 mV	Pass
80% Load	19.8 mV	17.0 mV	20.4 mV	15.8 mV	Pass
90% Load	14.4 mV	13.5 mV	17.3 mV	15.3 mV	Pass
100% Load	21.8 mV	14.2 mV	18.5 mV	19.8 mV	Pass
110% Load	22.7 mV	14.0 mV	19.5 mV	21.2 mV	Pass
Crossload 1	23.1 mV	10.0 mV	11.5 mV	7.2 mV	Pass
Crossload 2	16.2 mV	12.0 mV	9.9 mV	7.3 mV	Pass
Crossload 3	13.3 mV	9.1 mV	11.9 mV	7.0 mV	Pass
Crossload 4	21.3 mV	13.9 mV	18.2 mV	15.6 mV	Pass

□□□□□□□□□□

230V

Test	12V	5V	3.3V	5VSB	Pass/Fail
10% Load	16.4 mV	9.0 mV	9.3 mV	9.6 mV	Pass
20% Load	17.1 mV	10.9 mV	10.9 mV	10.0 mV	Pass
30% Load	14.0 mV	9.2 mV	10.5 mV	12.1 mV	Pass
40% Load	12.9 mV	24.2 mV	25.0 mV	11.8 mV	Pass
50% Load	13.5 mV	24.5 mV	21.5 mV	12.2 mV	Pass
60% Load	12.9 mV	13.7 mV	15.2 mV	14.9 mV	Pass

Test	12V	5V	3.3V	5VSB	Pass/Fail
70% Load	13.4 mV	11.9 mV	14.4 mV	13.4 mV	Pass
80% Load	13.6 mV	12.3 mV	15.4 mV	14.4 mV	Pass
90% Load	14.3 mV	12.1 mV	16.2 mV	14.9 mV	Pass
100% Load	22.3 mV	13.2 mV	18.8 mV	17.6 mV	Pass
110% Load	22.3 mV	14.5 mV	19.4 mV	18.3 mV	Pass
Crossload 1	23.7 mV	10.6 mV	12.2 mV	6.8 mV	Pass
Crossload 2	18.4 mV	12.9 mV	9.4 mV	6.5 mV	Pass
Crossload 3	15.3 mV	8.9 mV	11.3 mV	6.7 mV	Pass
Crossload 4	22.3 mV	13.2 mV	18.9 mV	15.4 mV	Pass

FSP Technology VITA GM 850W



Top side



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