FSP Technology MEGA TI 1350

Serial Number S4441000021

Lab ID FS13502798

Certification ID 252798

Test Result Report ID: 25PS2798A

Certificate Issue Date: May 5, 2025

115V 230V

Scheme: ETA-EMI PSU



115V 230V



Scheme: LAMBDA PSU



Aristeidis Bitziopoulos, Certification Body General Manager

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	MEGA TI 1350
OEM/ODM	FSP
Serial Number	S4441000021
Product Specifications	
Manufacturer-Provided Information	
Rated Voltage (Vrms)	100-240
Rated Current (Arms)	8-15

Rated Frequency (Hz)	50-60
Rated Power (W)	1350
Operating Temperature (Continuous Full Load) (°C)	
Type	ATX12V
Cable Design	Fully Modular
Warranty	-
Cybenetics Measurements	
Dimensions (W x H x D)	
Weight	
Cooling	135mm Hydro Dynamic Bearing Fan (PLA13525S12M)
Semi-Passive Operation	✓ (selectable)
Cybenetics Testing Information	
Lab ID	FS13502798
Date of receipt	Apr 15, 2025
Testing Date	Apr 30, 2025
Report Issued Date	May 5, 2025
DUT Notes	Both samples failed to start with full load at 90V, as required by the ATX specification, subsequently, they cannot get ATX v3.1 certification. Very relaxed fan profile. Voltage drop in 5VSB OCP testing.
Engineer Name	-
Authorized By the Laboratory Technical Manager	Aristeidis Bitziopoulos
Signature	

Cables and Connectors
(Non-accredited measurements)

Modular Cables				
Description	**Cable Count**	**Connector Count (Total)**	**Gauge**	In Cable Capacitors
ATX connector 20+4 pin (600mm)	1	1	16-22AWG	No
4+4 pin EPS12V (700mm)	2	2	16AWG	No
6+2 pin PCIe (650mm)	6	6	16AWG	No

12+4 pin PCIe (700mm) (600W)	2	2	16-24AWG	No
SATA (500mm+150mm+150mm+150mm)	2	8	18AWG	No
SATA (500mm+150mm) / 4-pin Molex (+150mm+100mm)	1	2 / 2	18AWG	No
4-pin Molex (500mm+150mm+150mm+150mm)	1	4	18AWG	No

Protection Features

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

Power Specifications

Rail		3.3V	5V	12V	5VSB	-12V
Max. Power	Amps	20	20	112.5	4	0.3
	Watts	120		1350	20	3.6
Total Max. Power (W)		1350				

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	3x NTC Thermistor SCK-2R515 (2.5 Ohm @ 25°C) & Relay
Rectifier FETs	4x CET CEL68N60SF (600V, 43A @ 100°C, Rds(on): 37mOhm)

APFC MOSFETs	4x Infineon IPA60R120C7 (650V, 16A @ 100°C, Rds(on): 0.120Ohm)
APFC Boost Diode	2x Infineon IDH08G65C6 (650V, 8A @ 145°C)
Bulk Cap(s)	3x Rubycon (450V, 470uF each or 1,410uF combined, 2-3,000h @ 105°C,MXH)
Main Switchers	4x Champion CMS6036B
Gate Drivers	2x Texas Instruments UCC21520
APFC Controller	Texas Instrument UCC28070
Resonant Controller	Champion CM6901T2X
Topology	Primary side: Bridgeless PFC, Full-Bridge & LLC Resonant converter Secondary side: Synchronous Rectification & DC-DC converters
Secondary Side	
+12V MOSFETs	8x Champion CMR009N04NS
5V & 3.3V	DC-DC Converters: 6x Infineon BSC0902NS (30V, 67A @ 100°C, Rds(on): 2.6mOhm) PWM Controller(s): UPI-semiuP3861P
Filtering Capacitors	Electrolytic: 4x Rubycon (4-10,000 @ 105°C, YXJ) 2x Nippon Chemi-con (4-10,000h @ 105°C, KY) 1x FKD (@105) Polymer: 42x Chemic-con, 1x FPCAP
Supervisor IC	Weltrend WT7527RA (OCP, OVP, UVP, SCP,PG)
Fan Controller	APW9010
Fan Model	Power Logic PLA13525S12M (135mm, 12V, 0.40A, Hydro Dynamic Bearing Fan)
5VSB	
Rectifier	Secos SSD61N06S-C (60V, 40A @ 100°C, Rds(on): 9mOhm)
Standby PWM Controller	Power Integrations INN3166C

Test Results

Temperature & Compliance Info

Temperature Range (°C /°F)	28-32 / 82.4-89.6
ErP Lot 3/6 Ready	✓
(EU) No 617/2013 Compliance	✓
ALPM (Alternative Low Power Mode) compatible	✓

Performance Summary

115V

Accredited	
Average Efficiency (>1450 load combinations)	91.410%
Average Noise Output (>1450 Load Combinations)	14.02dBA
Average PF (>1450 Load Combinations)	0.985
Efficiency With 10W (≤500W) or 2% (>500W) Load	65.426%
Standby Power Consumption	0.0394W
Non-Accredited	
12V Ripple (Full Load)	30.15mV
5V Ripple (Full Load)	18.60mV
3.3V Ripple (Full Load)	25.24mV
5VSB Ripple (Full Load)	18.26mV
12V Load Regulation	0.32%
5V Load Regulation	0.28%
3.3V Load Regulation	0.39%
5VSB Load Regulation	2.07%
Inrush Current	21.670A

230V

Accredited		
Average Efficiency (>1450 load combinations)		93.190%
Average Noise Output (>1450 Load Combinations)		13.19dBA
Average PF (>1450 Load Combinations)		0.966
Efficiency With 10W (≤500W) or 2% (>500W) Load		65.910%
Standby Power Consumption		0.1362W
Non-Accredited		
12V Ripple (Full Load)		28.39mV
5V Ripple (Full Load)		19.67mV
3.3V Ripple (Full Load)		26.06mV
5VSB Ripple (Full Load)		20.41mV
12V Load Regulation		0.31%
5V Load Regulation		0.28%
3.3V Load Regulation		0.39%
5VSB Load Regulation		2.13%
Inrush Current		42.530A
12V Transient Response (200%)		11.49V
5V Transient Response (200%)		4.975V
3.3V Transient Response (200%)		3.215V
5VSB Transient Response (200%)		4.919V
Hold-Up Time & PWR_OK Signal		26.60ms
AC Loss to PWR_OK Hold Up Time		22.20ms
PWR_OK Inactive to DC Loss Delay		4.40ms
PSU Timings: T1 (20% / 100%)	122.0ms	142.0ms
PSU Timings: T3 (20% / 100%)	120.0ms	121.0ms
12V OCP (30.0°C / 45.4°C)	125.40A (111.47%), 12.038V	125.30A (111.38%), 12.046V
5V OCP (30.0°C / 45.4°C)	25.7A (128.50%), 5.03V	24.6A (123.00%), 5.026V
3.3V OCP (30.0°C / 45.4°C)	27.3A (136.50%), 3.333V	26.5A (132.50%), 3.33V
5VSB OCP (30.0°C / 45.4°C)	5A (125.00%), 4.826V*	4.9A (122.50%), 4.909V*
OPP (31.60°C / 41.38°C)	117.46%	116.20%

Hold-Up Time & PWR_OK Signal

Hold-Up Time (ms)	26.6
AC Loss to PWR_OK Hold Up Time (ms)	22.2
PWR_OK Inactive to DC Loss Delay (ms)	4.4

Stromverbrauch im Ruhezustand

Tables

115V

Detailed Results						
	Average	Min	Limit Min	Max	Limit Max	Result
Mains Voltage RMS:	115.05 V	115.02 V	113.85 V	115.09 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 %	0.08 %	N/A	0.19 %	2.00 %	PASS
Real Power:	0.039 W	-0.216 W	N/A	0.302 W	N/A	N/A
Apparent Power:	10.147 W	10.049 W	N/A	10.420 W	N/A	N/A
Power Factor:	0.005	N/A	N/A	N/A	N/A	N/A

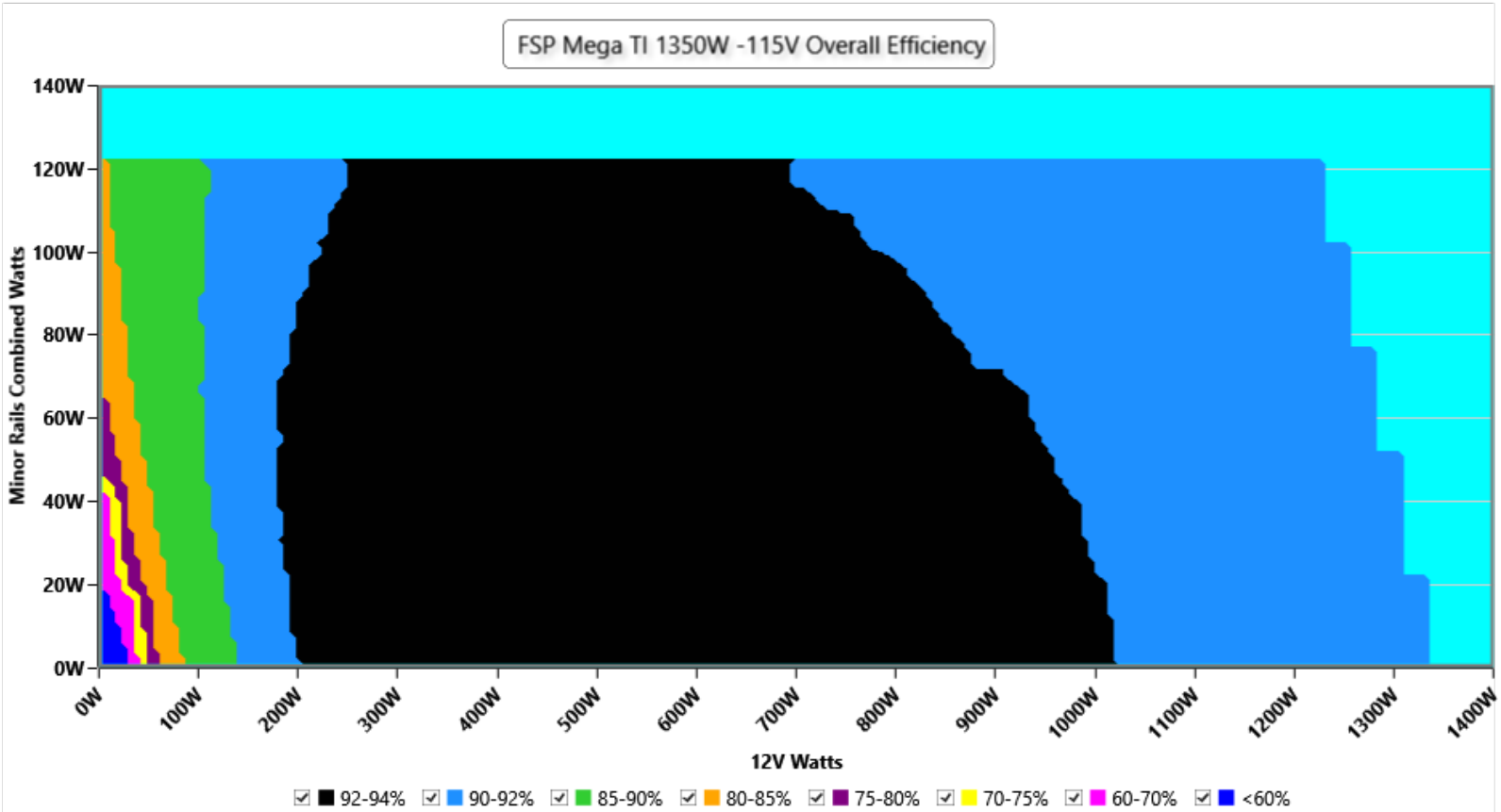
230V

Detailed Results						
	Average	Min	Limit Min	Max	Limit Max	Result
Mains Voltage RMS:	231.00 V	230.91 V	227.70 V	231.06 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 %	0.14 %	N/A	0.26 %	2.00 %	PASS
Real Power:	0.136 W	-0.714 W	N/A	1.114 W	N/A	N/A
Apparent Power:	34.331 W	34.073 W	N/A	35.346 W	N/A	N/A

Power Factor:	0.005	N/A	N/A	N/A	N/A	N/A

Efficiency Graph

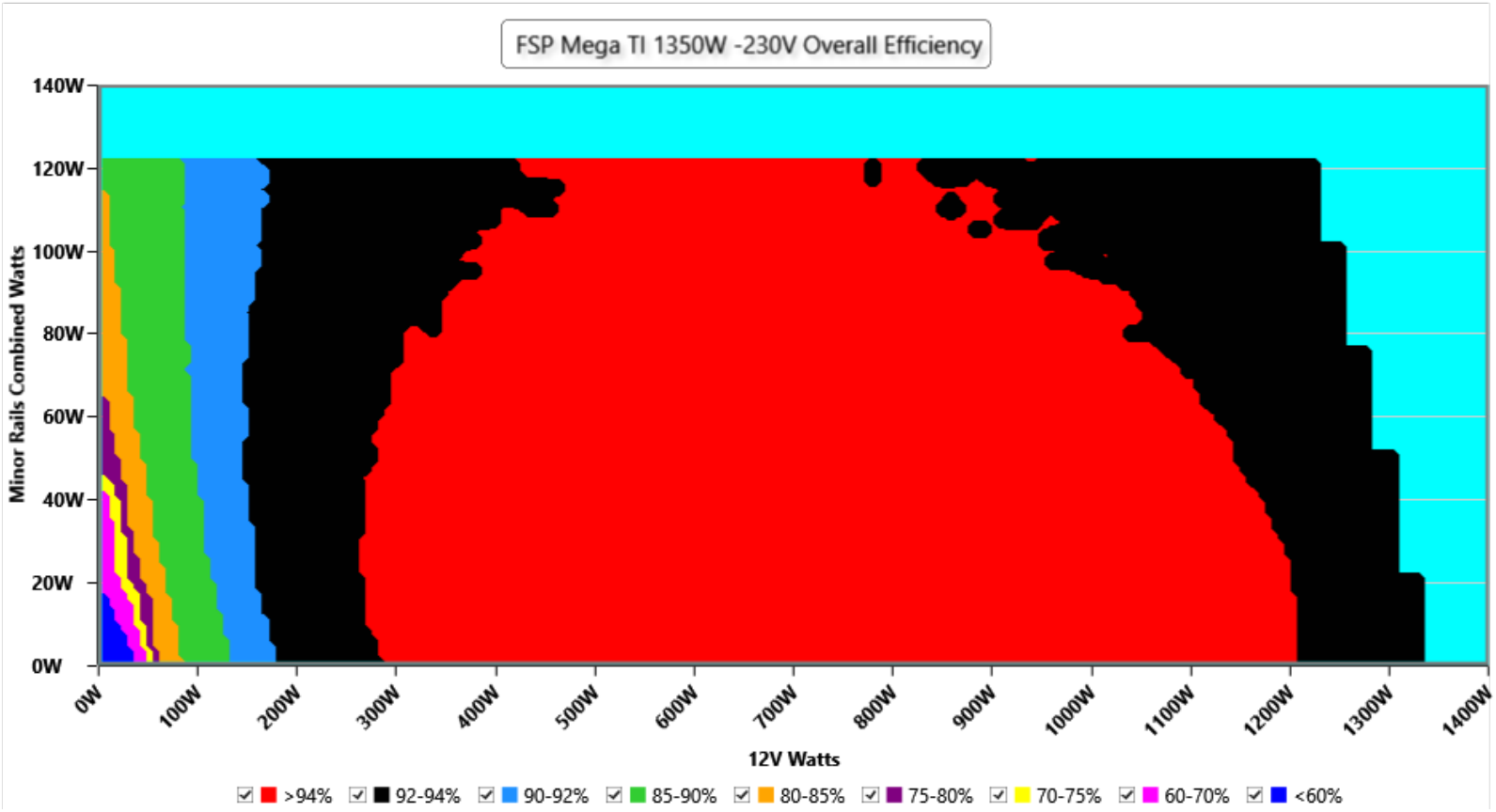
115V



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

230V

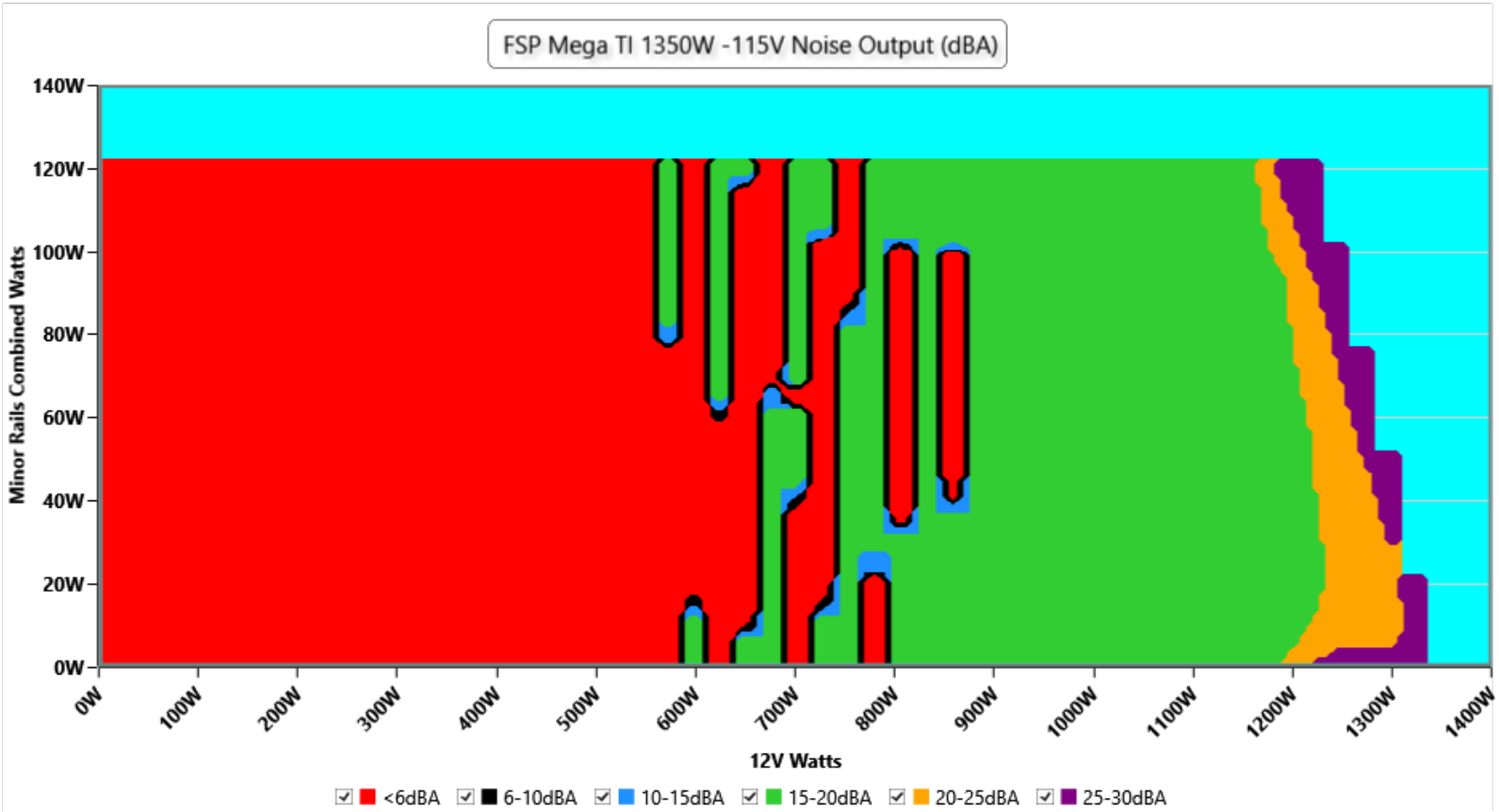


INFO

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Noise Graph

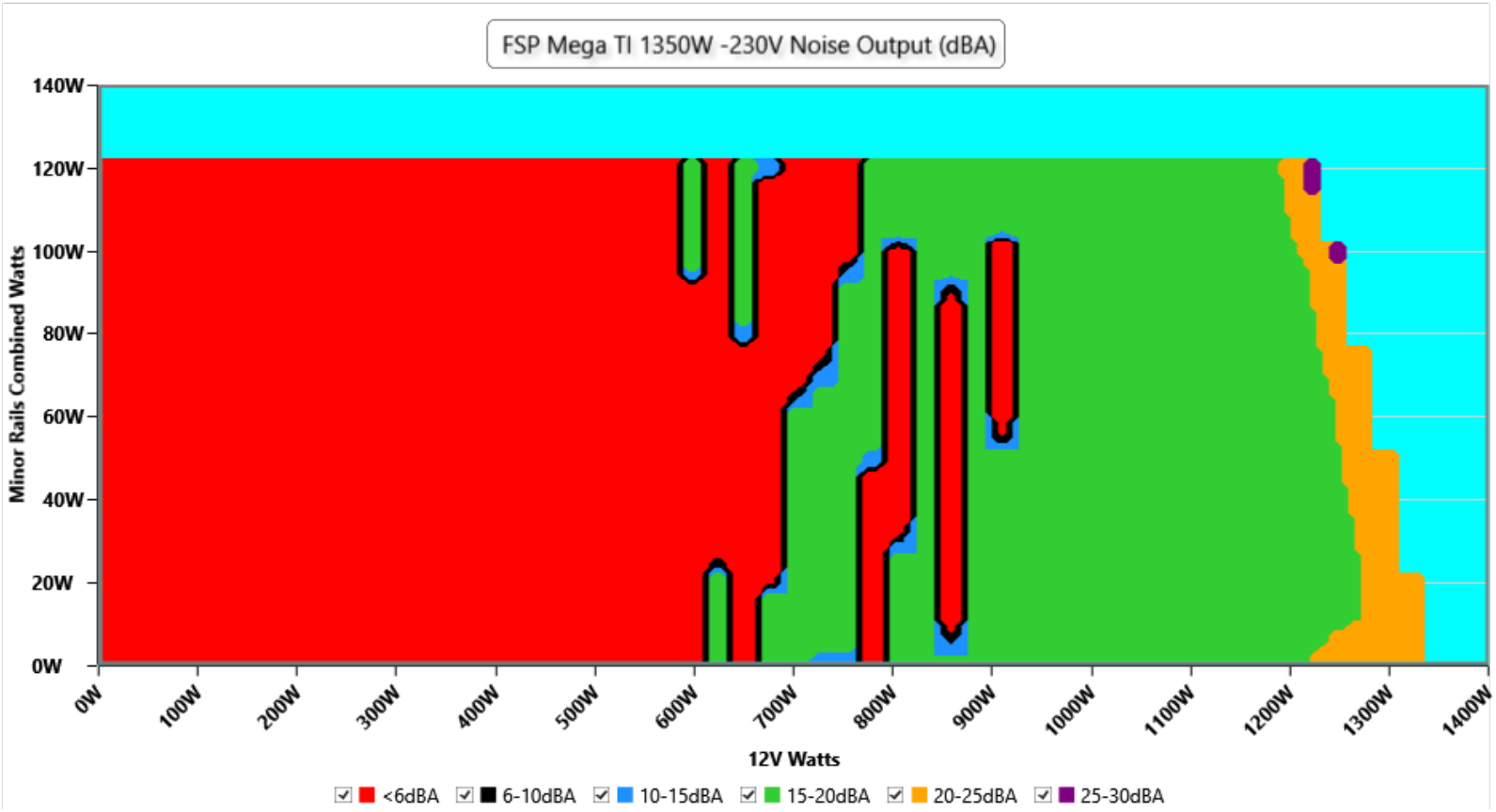
115V



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

230V



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

Noise under high ambient temperature (indicative)

115V

Load	Normal ambient fan · noise · intake	High ambient fan · noise · intake	Noise change
10%	0 RPM · <6.0 dB(A) · 31.0 °C	0 RPM · <6.0 dB(A) · 47.8 °C	fan off in both
20%	0 RPM · <6.0 dB(A) · 32.3 °C	0 RPM · <6.0 dB(A) · 48.1 °C	fan off in both
50%	0 RPM · <6.0 dB(A) · 32.8 °C	649 RPM · 18.0 dB(A) · 42.4 °C	fan starts (<6.0 → 18.0)
100%	641 RPM · 17.5 dB(A) · 30.9 °C	1373 RPM · 38.9 dB(A) · 45.5 °C	**+21.4 dB(A)**

230V

Load	Normal ambient fan · noise · intake	High ambient fan · noise · intake	Noise change
10%	0 RPM · <6.0 dB(A) · 30.4 °C	0 RPM · <6.0 dB(A) · 43.7 °C	fan off in both
20%	0 RPM · <6.0 dB(A) · 32.1 °C	0 RPM · <6.0 dB(A) · 44.5 °C	fan off in both
50%	0 RPM · <6.0 dB(A) · 32.8 °C	0 RPM · <6.0 dB(A) · 45.4 °C	fan off in both
100%	639 RPM · 17.3 dB(A) · 30.3 °C	1344 RPM · 38.2 dB(A) · 45.1 °C	**+20.9 dB(A)**

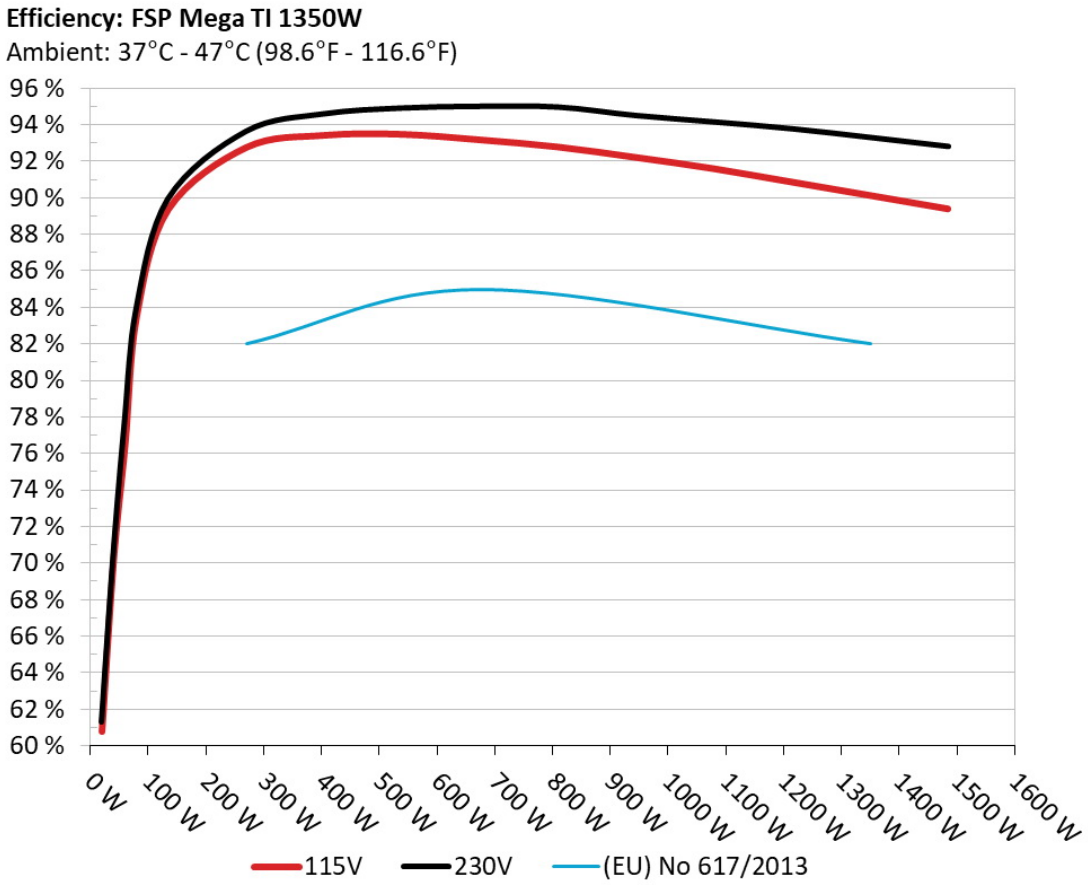
INFO

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

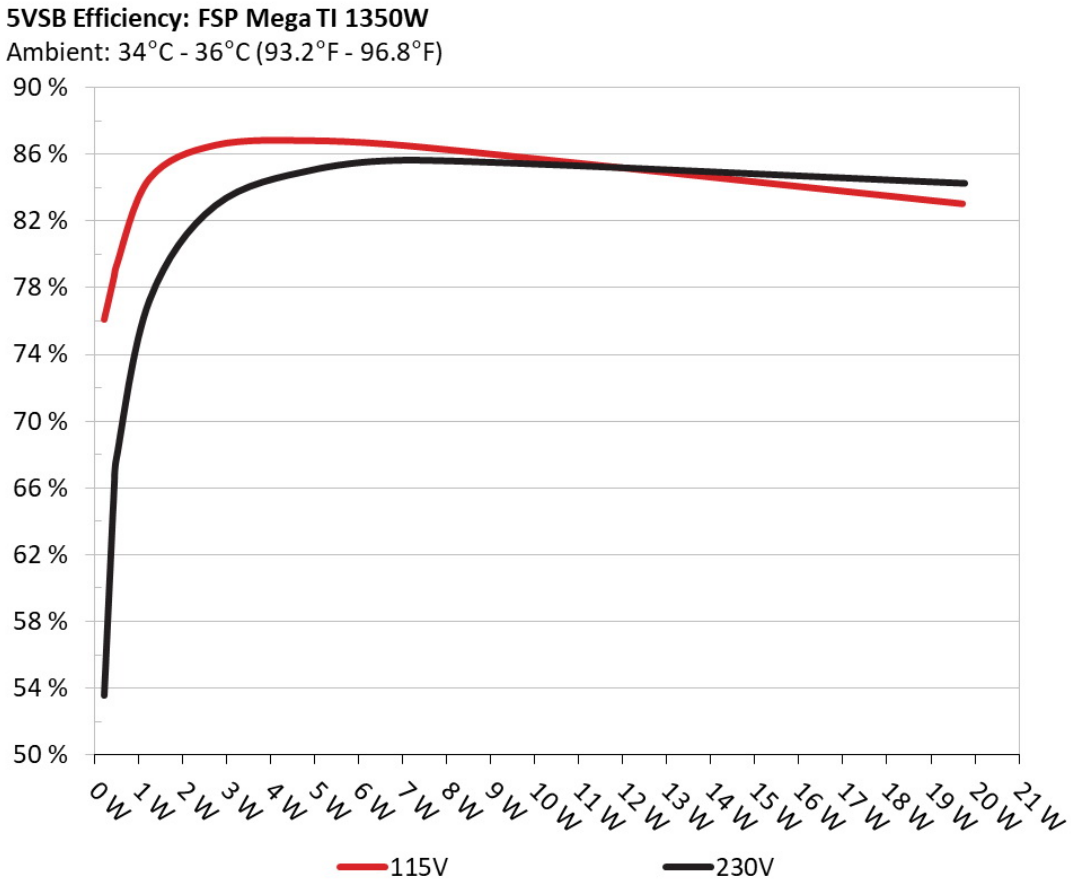
Efficiency under high ambient temperature



INFO

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 Efficiency



INFO

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

5VSB Efficiency (ERP LOT 3/6 & CEC)

115V

Test #	5VSB	DC/AC (Watts)	Efficiency	PF/AC Volts
1	**0.045A**	0.227W	76.096%	0.029
	5.02V	0.301W		114.87V
2	**0.09A**	0.451W	78.68%	0.055
	5.006V	0.574W		114.83V
3	**0.55A**	2.754W	86.581%	0.251
	5.006V	3.182W		114.83V
4	**1A**	5.009W	86.848%	0.358
	5.008V	5.771W		114.83V
5	**1.5A**	7.507W	86.442%	0.417
	5.003V	8.688W		114.83V
6	**4.001A**	19.707W	83.055%	0.534
	4.926V	23.729W		114.83V

230V

Test #	5VSB	DC/AC (Watts)	Efficiency	PF/AC Volts
1	**0.045A**	0.227W	53.543%	0.012
	5.035V	0.442W		229.83V
2	**0.09A**	0.453W	66.131%	0.02
	5.026V	0.681W		229.83V
3	**0.55A**	2.755W	82.941%	0.093
	5.009V	3.325W		229.81V
4	**1A**	5.01W	85.099%	0.156
	5.009V	5.89W		229.82V
5	**1.5A**	7.509W	85.649%	0.215
	5.005V	8.767W		229.81V
6	**4.001A**	19.773W	84.269%	0.371
	4.943V	23.465W		229.81V

Protection Features

OCP (Normal @ 30°C)	12V: 125.4A (111.47%), 12.038V 5V: 25.7A (128.5%), 5.03V 3.3V: 27.3A (136.5%), 3.333V 5VSB: 5A (125%), 4.826V* * Voltage drop (2.778V @5.5A)
OCP (Hot @ 45.4°C)	12V: 125.3A (111.38%), 12.046V 5V: 24.6A (123%), 5.026V 3.3V: 26.5A (132.5%), 3.33V 5VSB: 4.9A (122.5%), 4.909V* * Voltage drop (2.792V @5.5A)
OPP (Normal @ 31.6°C)	1585.75W (117.46%)
OPP (Hot @ 41.4°C)	1568.73W (116.2%)
OTP	✓ (130°C @ Heat Sink)
SCP	12V to Earth: ✓ 5V to Earth: ✓ 3.3V to Earth: ✓ 5VSB to Earth: ✓ -12V to Earth: ✓
PWR_OK	Proper Operation
UVP (Full Load @ 90V)	✗
UVP (No Damage @ 80V)	✓
Conducted Emissions EN55032 & CISPR 32	✓
NLO	✓
Fan Failure Protection	✗
SIP	Surge: MOV Inrush: NTC & Bypass Relay

Supplementary Tests (For Reference)

Typical 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
10%	**9.385A**	**1.984A**	**1.979A**	**1.002A**	134.976	89.364%	0	<6.0	47.82°C	0.972
	12.080V	5.039V	3.336V	4.989V	151.041				40.18°C	114.79V
20%	**19.799A**	**2.975A**	**2.968A**	**1.204A**	269.985	92.752%	0	<6.0	48.06°C	0.974
	12.076V	5.042V	3.336V	4.983V	291.086				40.64°C	114.75V
30%	**30.551A**	**3.472A**	**3.464A**	**1.408A**	404.863	93.415%	0	<6.0	49.81°C	0.974
	12.072V	5.041V	3.335V	4.974V	433.4				41.33°C	114.7V
40%	**41.299A**	**3.97A**	**3.961A**	**1.612A**	539.648	93.471%	0	<6.0	49.97°C	0.983
	12.069V	5.039V	3.333V	4.964V	577.399				41.98°C	114.66V
50%	**51.725A**	**4.965A**	**4.953A**	**1.816A**	674.599	93.168%	649	18	42.35°C	0.987
	12.066V	5.036V	3.331V	4.956V	724.067				51.33°C	114.61V
60%	**62.163A**	**5.959A**	**5.946A**	**2A**	809.421	92.778%	646	17.8	42.78°C	0.991
	12.060V	5.035V	3.331V	4.95V	872.427				48.83°C	114.57V
70%	**72.611A**	**6.955A**	**6.94A**	**2.224A**	944.42	92.209%	649	18	43.03°C	0.993
	12.055V	5.034V	3.329V	4.947V	1024.221				49.78°C	114.51V
80%	**83.111A**	**7.951A**	**7.933A**	**2.329A**	1079.599	91.588%	668	18.2	43.85°C	0.995
	12.052V	5.031V	3.328V	4.939V	1178.763				51.5°C	114.47V
90%	**93.959A**	**8.451A**	**8.417A**	**2.432A**	1214.646	90.86%	950	29.3	44.43°C	0.996
	12.049V	5.029V	3.326V	4.935V	1336.828				50.39°C	114.41V
100%	**104.223A**	**8.95A**	**8.931A**	**4.091A**	1350.055	90.126%	1373	38.9	45.52°C	0.997
	12.045V	5.028V	3.325V	4.89V	1497.97				47.97°C	114.36V
110%	**114.751A**	**9.949A**	**10.017A**	**4.095A**	1485.04	89.391%	1918	48	46.8°C	0.997
	12.041V	5.026V	3.324V	4.885V	1661.288				48.04°C	114.3V
CL1	**0.116A**	**14.353A**	**14.313A**	**0A**	121.305	84.485%	0	<6.0	47.66°C	0.973
	12.081V	5.03V	3.332V	4.984V	143.582				42.18°C	114.78V

Test	12V	5V	3.3V	5VSB	DC/AC (Watts)	Efficiency	Fan Speed (RPM)	PSU Noise (dB[A])	Temps (In/Out)	PF/AC Volts
CL2	**0.116A**	**19.878A**	**0A**	**0A**	101.366	81.88%	0	<6.0	48.96°C	0.973
	12.084V	5.029V	3.33V	4.985V	123.801				40.97°C	114.8V
CL3	**0.115A**	**0A**	**19.82A**	**0A**	67.388	75.088%	0	<6.0	48.51°C	0.966
	12.083V	5.024V	3.33V	4.982V	89.746				39.99°C	114.81V
CL4	**112.051A**	**0A**	**0A**	**0A**	1349.583	90.721%	1130	33.7	44.73°C	0.997
	12.044V	5.03V	3.328V	4.957V	1487.632				45.77°C	114.37V

The results above are not used in the certification process

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%	**9.386A**	**1.984A**	**1.979A**	**1.002A**	134.974	89.937%	0	<6.0	43.69°C	0.935
	12.079V	5.039V	3.336V	4.989V	150.074				40.92°C	229.8V
20%	**19.800A**	**2.975A**	**2.968A**	**1.204A**	269.982	93.634%	0	<6.0	44.47°C	0.966
	12.074V	5.042V	3.336V	4.983V	288.34				40.64°C	229.78V
30%	**30.552A**	**3.472A**	**3.464A**	**1.407A**	404.844	94.591%	0	<6.0	45.3°C	0.964
	12.071V	5.041V	3.335V	4.976V	427.996				41.29°C	229.76V
40%	**41.302A**	**3.969A**	**3.961A**	**1.611A**	539.605	94.908%	0	<6.0	45.82°C	0.966
	12.067V	5.039V	3.333V	4.967V	568.557				41.61°C	229.74V
50%	**51.747A**	**4.963A**	**4.952A**	**1.812A**	674.548	95.001%	0	<6.0	45.43°C	0.97
	12.060V	5.038V	3.332V	4.967V	710.072				42.11°C	229.74V
60%	**62.190A**	**5.957A**	**5.944A**	**2A**	809.314	94.962%	0	<6.0	45.17°C	0.974
	12.053V	5.037V	3.331V	4.962V	852.249				42.8°C	229.71V
70%	**72.611A**	**6.954A**	**6.94A**	**2.222A**	944.333	94.499%	641	17.5	43.1°C	0.978
	12.054V	5.033V	3.329V	4.95V	999.285				48.19°C	229.68V
80%	**83.109A**	**7.95A**	**7.933A**	**2.328A**	1079.53	94.148%	647	17.9	43.91°C	0.981
	12.052V	5.031V	3.327V	4.941V	1146.634				47.31°C	229.66V
90%	**93.964A**	**8.45A**	**8.417A**	**2.431A**	1214.604	93.774%	868	26.1	44.88°C	0.984
	12.048V	5.029V	3.326V	4.937V	1295.257				47.2°C	229.64V

Test	12V	5V	3.3V	5VSB	DC/AC (Watts)	Efficiency	Fan Speed (RPM)	PSU Noise (dB[A])	Temps (In/Out)	PF/AC Volts
100%	**104.226A**	**8.95A**	**8.932A**	**4.095A**	1350.037	93.297%	1344	38.2	45.1°C	0.987
	12.044V	5.028V	3.325V	4.885V	1447.026				47.34°C	229.61V
110%	**114.744A**	**9.949A**	**10.018A**	**4.1A**	1485.034	92.807%	1920	48.1	46.74°C	0.989
	12.042V	5.025V	3.324V	4.879V	1600.122				48.54°C	229.58V
CL1	**0.117A**	**14.351A**	**14.313A**	**0A**	121.309	85.019%	0	<6.0	49.04°C	0.932
	12.083V	5.031V	3.332V	4.984V	142.685				42.97°C	229.81V
CL2	**0.116A**	**19.877A**	**0A**	**0A**	101.355	82.525%	0	<6.0	49.77°C	0.918
	12.084V	5.029V	3.329V	4.985V	122.819				41.54°C	229.81V
CL3	**0.115A**	**0A**	**19.824A**	**0A**	67.386	75.85%	0	<6.0	48.84°C	0.874
	12.085V	5.023V	3.329V	4.982V	88.84				40.04°C	229.82V
CL4	**112.033A**	**0A**	**0A**	**0A**	1349.548	93.698%	1222	35.7	43.8°C	0.987
	12.046V	5.029V	3.327V	4.956V	1440.316				47.02°C	229.61V

The results above are not used in the certification process

Light 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
20W	**1.232A**	**0.496A**	**0.494A**	**0.2A**	20.013	60.772%	0	<6.0	43.05°C	0.913
	12.073V	5.042V	3.338V	4.991V	32.932				36.73°C	114.83V
40W	**2.708A**	**0.694A**	**0.692A**	**0.301A**	40.01	70.088%	0	<6.0	45.03°C	0.952
	12.074V	5.041V	3.338V	4.989V	57.089				37.32°C	114.82V
60W	**4.184A**	**0.893A**	**0.89A**	**0.401A**	60.008	76.47%	0	<6.0	45.2°C	0.961
	12.077V	5.041V	3.337V	4.988V	78.472				38.39°C	114.82V
80W	**5.654A**	**1.091A**	**1.088A**	**0.501A**	79.958	83.492%	0	<6.0	46.73°C	0.967
	12.083V	5.04V	3.337V	4.986V	95.769				39.33°C	114.81V

The results above are not used in the certification process

230V

Test	12V	5V	3.3V	5VSB	DC/AC (Watts)	Efficiency	Fan Speed (RPM)	PSU Noise (dB[A])	Temps (In/Out)	PF/AC Volts
20W	**1.230A**	**0.496A**	**0.494A**	**0.2A**	20.003	61.297%	0	<6.0	44°C	0.591
	12.072V	5.042V	3.338V	4.988V	32.633				36.59°C	229.82V
40W	**2.708A**	**0.694A**	**0.692A**	**0.301A**	40.005	70.371%	0	<6.0	43°C	0.777
	12.073V	5.041V	3.338V	4.988V	56.849				37.93°C	229.82V
60W	**4.184A**	**0.893A**	**0.89A**	**0.401A**	60.006	77.823%	0	<6.0	42.73°C	0.847
	12.078V	5.041V	3.338V	4.987V	77.106				38.58°C	229.82V
80W	**5.656A**	**1.091A**	**1.088A**	**0.501A**	79.955	83.912%	0	<6.0	43.74°C	0.885
	12.081V	5.04V	3.337V	4.986V	95.285				39.93°C	229.82V

The results above are not used in the certification process

Ripple Measurements

115V

Test	12V	5V	3.3V	5VSB	Pass/Fail
10% Load	17.03mV	13.39mV	12.98mV	11.39mV	Pass
20% Load	17.39mV	12.06mV	12.88mV	10.88mV	Pass
30% Load	18.36mV	14.68mV	16.88mV	10.78mV	Pass
40% Load	13.71mV	12.93mV	17.75mV	8.98mV	Pass
50% Load	17.70mV	17.96mV	20.16mV	11.19mV	Pass
60% Load	16.37mV	15.04mV	15.65mV	15.34mV	Pass
70% Load	17.54mV	18.48mV	28.73mV	14.26mV	Pass
80% Load	17.65mV	21.20mV	32.47mV	17.24mV	Pass
90% Load	17.39mV	18.48mV	28.32mV	18.37mV	Pass
100% Load	30.15mV	18.60mV	25.24mV	18.26mV	Pass
110% Load	28.36mV	18.44mV	20.75mV	20.08mV	Pass
Crossload1	24.48mV	13.66mV	15.63mV	9.23mV	Pass
Crossload2	23.48mV	16.01mV	13.96mV	8.42mV	Pass

Test	12V	5V	3.3V	5VSB	Pass/Fail
Crossload3	20.77mV	12.83mV	16.36mV	8.36mV	Pass
Crossload4	27.56mV	17.27mV	20.49mV	11.28mV	Pass

The results above are not used in the certification process

230V

Test	12V	5V	3.3V	5VSB	Pass/Fail
10% Load	15.50mV	12.83mV	13.03mV	12.16mV	Pass
20% Load	16.77mV	13.50mV	13.85mV	10.72mV	Pass
30% Load	18.72mV	14.32mV	18.31mV	10.11mV	Pass
40% Load	17.03mV	14.68mV	20.42mV	11.08mV	Pass
50% Load	15.70mV	13.75mV	17.18mV	10.26mV	Pass
60% Load	19.54mV	15.75mV	15.75mV	14.88mV	Pass
70% Load	17.39mV	18.47mV	27.75mV	14.73mV	Pass
80% Load	18.46mV	20.68mV	32.68mV	15.65mV	Pass
90% Load	18.31mV	20.17mV	31.14mV	16.52mV	Pass
100% Load	28.39mV	19.67mV	26.06mV	20.41mV	Pass
110% Load	29.12mV	19.04mV	21.89mV	19.61mV	Pass
Crossload1	25.57mV	15.40mV	17.44mV	9.63mV	Pass
Crossload2	26.60mV	17.40mV	14.47mV	9.24mV	Pass
Crossload3	18.41mV	14.16mV	18.98mV	9.34mV	Pass
Crossload4	27.55mV	18.74mV	22.23mV	11.35mV	Pass

The results above are not used in the certification process

FSP Technology MEGA TI 1350



Top side



Power specifications label

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