ASUS TUF Gaming 1000W Platinum

Serial Number 2Q34282464

Lab ID AS10003346

Certification ID 263346

Test Result Report ID: 26PS3346A

Certificate Issue Date: Jul 23, 2026

Scheme: ETA-EMI PSU

115V 230V

Scheme: LAMBDA PSU

115V 230V

Outside Validation Scope

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	ASUS
Model	TUF Gaming 1000W Platinum
OEM/ODM	Great Wall
Serial Number	2Q34282464
Product Specifications	
Manufacturer-Provided Information	
Rated Voltage (Vrms)	100-240

Rated Current (Arms)	15-8
Rated Frequency (Hz)	47-63
Rated Power (W)	1000
Operating Temperature (Continuous Full Load) (°C)	0 - 50
Type	ATX12V
Cable Design	Fully Modular
Warranty	8 years
Cybenetics Measurements	
Dimensions (W x H x D)	150 x 85 x 150mm
Weight	1.51 kg (3.33 lb)
Cooling	135mm Ball Bearing Fan (HA13525M12B-Z)
Semi-Passive Operation	✗
Cybenetics Testing Information	
Lab ID	AS10003346
Date of receipt	Jun 17, 2026
Testing Date	Jul 3, 2026
Report Issued Date	Jul 23, 2026
Engineer Name	Ioannis Kalyviotis
Authorized By the Laboratory Technical Manager	Aristeidis Bitziopoulos
Signature	

Cables and Connectors
(Non-accredited measurements)

Modular Cables				
Description	**Cable Count**	**Connector Count (Total)**	**Gauge**	**Cable Type**
ATX connector 20+4 pin (610mm)	1	1	16-20AWG	Tinned Copper
4+4 pin EPS12V (750mm)	2	2	16AWG	Tinned Copper
6+2 pin PCIe (670mm)	3	3	16AWG	Tinned Copper
12+4 pin PCIe (670mm) (600W)	1	1	16-24AWG	Tinned Copper
SATA (400mm+150mm+150mm)	2	6	18AWG	Tinned Copper

Modular Cables				
4-pin Molex (400mm+150mm+150mm)	1	3	18AWG	Tinned Copper

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	25	25	83.33	3	0.3
	Watts	125		1000	15	3.6
Total Max. Power (W)		1000				

Parts Description

General Data	
Manufacturer (OEM)	Great Wall
PCB Type	Double-Sided
Primary Side	
Transient Filter	4x Y caps, 3x X caps, 2x CM chokes, 1x MOV
Inrush Protection	Thinking Electronic Industrial SCK205R0 (5 Ohm @ 25°C) & Relay
Bridge Rectifier	2x Diodes GBU25KH (800V, 25A @ 100°C)
APFC MOSFETs	Transphorm TP65H035G4YS (600V, 29.5A @ 100°C, Rds(on): 0.041Ohm)
APFC Boost Diode	Wolfspeed C6D10065E (650V, 10A @ 155°C)
Bulk Cap(s)	1x Elite (420V, 470uF, 2000h @ 105°C, PL) 1x Elite (450V, 270uF, 2000h @ 105°C, PL)

Main Switchers	2x Infineon IPW60R070CFD7 (650V, 20A @ 100°C, Rds(on): 0.070Ohm)
APFC Controller	Champion CM6502S & Sync Power SPN5003 (reducing no load consumption)
Resonant Controller	Champion CM6901
IC Driver	Novosence NSi6602
Topology	Primary side: APFC, Half-Bridge & LLC Resonant Converter Secondary side: [12V] Synchronous Rectification & [Minor Rails] DC-DC converters
Secondary Side	
+12V MOSFETs	6x Infineon BSC010N04LS6 (40V, 201A @ 100°C, Rds(on): 1.0mOhm)
5V & 3.3V	DC-DC Converters: 4x Advanced Power Electronics AP4024GEMT-HF (30V, 20.9A @ 70°C, Rds(on): 4.5mOhm) PWM Controller(s): 2x Anpec APW7159C
Filtering Capacitors	Electrolytic: 8x Elite (3000~5000h @ 105°C, EJ) 3x Elite (3000~6000h @ 105°C, EV) 1x Rubycon (4000~10000h @ 105°C, YXJ) 1x Lelon (2000~5000h @ 105°C, RXJ) Polymer: 16x Nichicon FPCAP 14x
Supervisor IC	Weltrend WT7681P
Fan Power Switch	S8550 Transistor
Fan Model	Hong Hua HA13525M12B-Z (135mm, 12V, 0.36A, Dual Ball Bearing)
5VSB Circuit	
Rectifier	Pingwei NVMFS5C670NL (60V, 12A @ 100°C)
Standby PWM Controller	Leadtrend LD5537B1

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	✓
ATX v3.1 PSU Power Excursion	✓
Conducted Emissions EN 55032 & CISPR 32	Passed

Performance Summary

115V

Accredited	
Average Efficiency (>1450 load combinations)	90.534%
Average Noise Output (>1450 Load Combinations)	16.57dBA
Average PF (>1450 Load Combinations)	0.984
Efficiency With 10W (≤500W) or 2% (>500W) Load	73.922%
Standby Power Consumption	0.0599W
Non-Accredited	
12V Ripple (Full Load)	41.48mV
5V Ripple (Full Load)	23.81mV
3.3V Ripple (Full Load)	24.47mV
5VSB Ripple (Full Load)	23.19mV
12V Load Regulation	0.52%
5V Load Regulation	0.29%
3.3V Load Regulation	0.49%
5VSB Load Regulation	2.19%
Inrush Current	31.980A

230V

Accredited	
Average Efficiency (>1450 load combinations)	92.284%
Average Noise Output (>1450 Load Combinations)	16.63dBA
Average PF (>1450 Load Combinations)	0.951
Efficiency With 10W (≤500W) or 2% (>500W) Load	63.564%
Standby Power Consumption	0.1285W

Non-Accredited		
12V Ripple (Full Load)		42.19mV
5V Ripple (Full Load)		24.84mV
3.3V Ripple (Full Load)		25.91mV
5VSB Ripple (Full Load)		23.76mV
12V Load Regulation		0.52%
5V Load Regulation		0.29%
3.3V Load Regulation		0.49%
5VSB Load Regulation		2.20%
Inrush Current		82.840A
12V Transient Response (200%)		11.54V
5V Transient Response (200%)		5.034V
3.3V Transient Response (200%)		3.214V
5VSB Transient Response (200%)		5.026V
Hold-Up Time & PWR_OK Signal		15.90ms
AC Loss to PWR_OK Hold Up Time		12.90ms
PWR_OK Inactive to DC Loss Delay		3.00ms
PSU Timings: T1 (20% / 100%)	56.0ms	54.0ms
PSU Timings: T3 (20% / 100%)	125.0ms	124.0ms
12V OCP (29.0°C / 41.9°C)	107.00A (128.41%), 12.039V	104.40A (125.29%), 12.038V
5V OCP (29.0°C / 41.9°C)	34.2A (136.80%), 5.109V	32.5A (130.00%), 5.11V
3.3V OCP (29.0°C / 41.9°C)	34.1A (136.40%), 3.275V	34A (136.00%), 3.276V
5VSB OCP (29.0°C / 41.9°C)	5.9A (196.67%), 5.075V	5.6A (186.67%), 5.079V
OPP (29.76°C / 41.99°C)	127.01%	123.71%

Hold-Up Time & PWR_OK Signal

Hold-Up Time (ms)	15.9
AC Loss to PWR_OK Hold Up Time (ms)	12.9
PWR_OK Inactive to DC Loss Delay (ms)	3

Vampire Power

Tables

115V

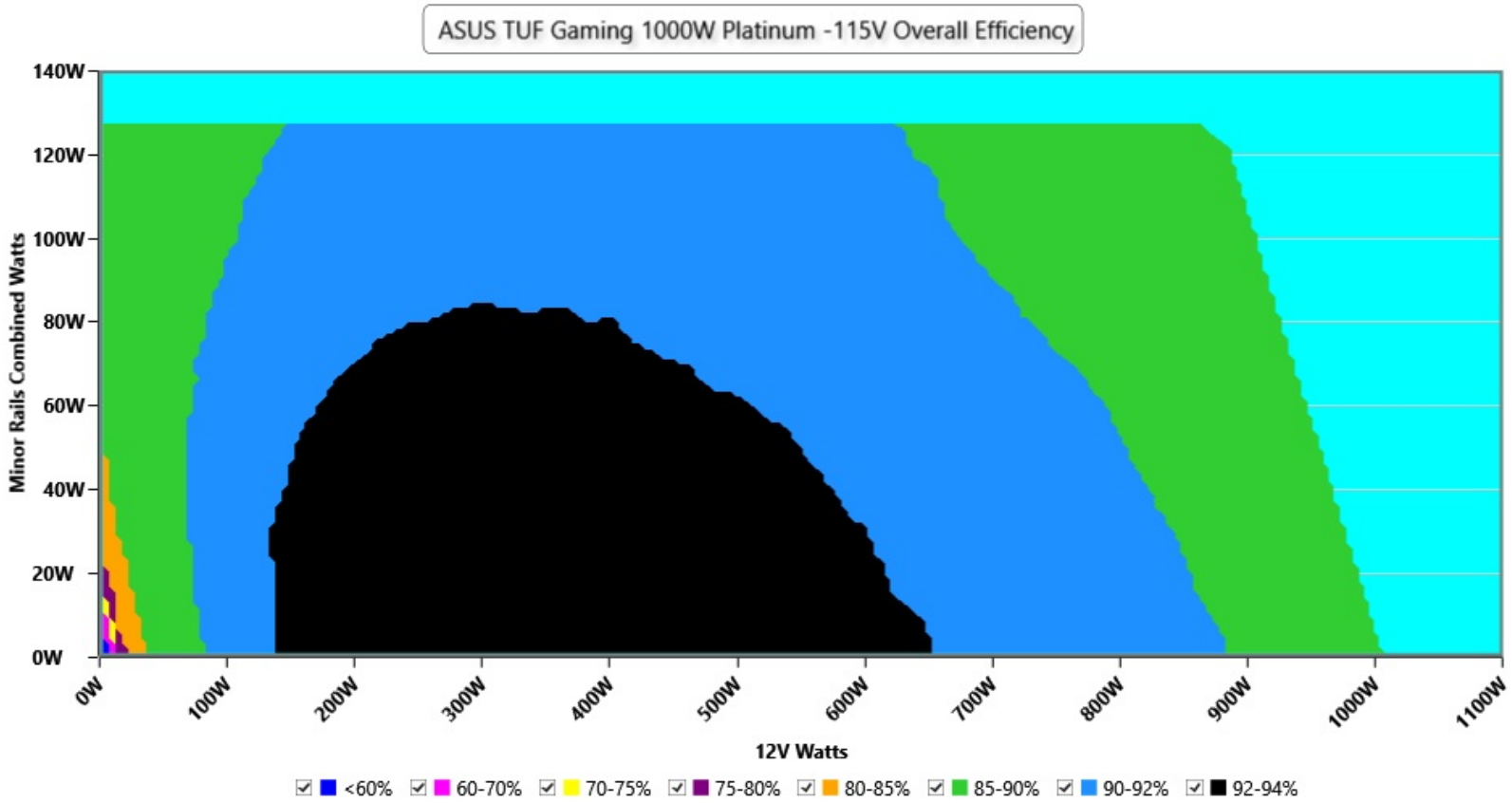
Detailed Results						
	Average	Min	Limit Min	Max	Limit Max	Result
Mains Voltage RMS:	114.99 V	114.97 V	113.85 V	115.01 V	116.15 V	PASS
Mains Frequency:	60.00 Hz	60.00 Hz	59.40 Hz	60.01 Hz	60.60 Hz	PASS
Mains Voltage CF:	1.416	1.415	1.340	1.416	1.490	PASS
Mains Voltage THD:	0.13 %	0.09 %	N/A	0.18 %	2.00 %	PASS
Real Power:	0.060 W	0.039 W	N/A	0.081 W	N/A	N/A
Apparent Power:	10.307 W	10.287 W	N/A	10.327 W	N/A	N/A
Power Factor:	0.006	N/A	N/A	N/A	N/A	N/A

230V

Detailed Results						
	Average	Min	Limit Min	Max	Limit Max	Result
Mains Voltage RMS:	230.00 V	229.97 V	227.70 V	230.01 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:	0.129 W	0.088 W	N/A	0.174 W	N/A	N/A
Apparent Power:	33.425 W	33.393 W	N/A	33.453 W	N/A	N/A
Power Factor:	0.004	N/A	N/A	N/A	N/A	N/A

Efficiency Graph

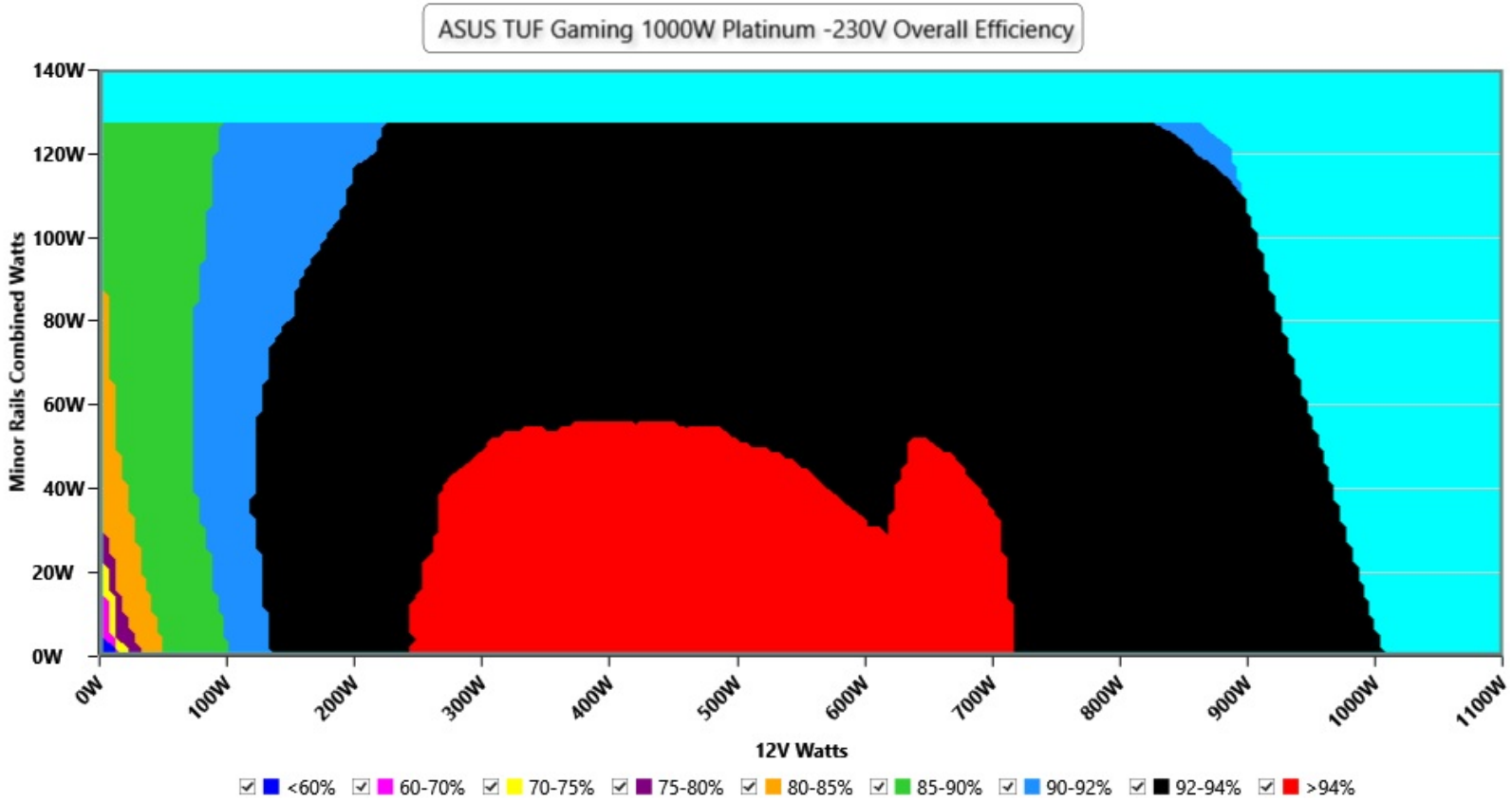
115V



INFO

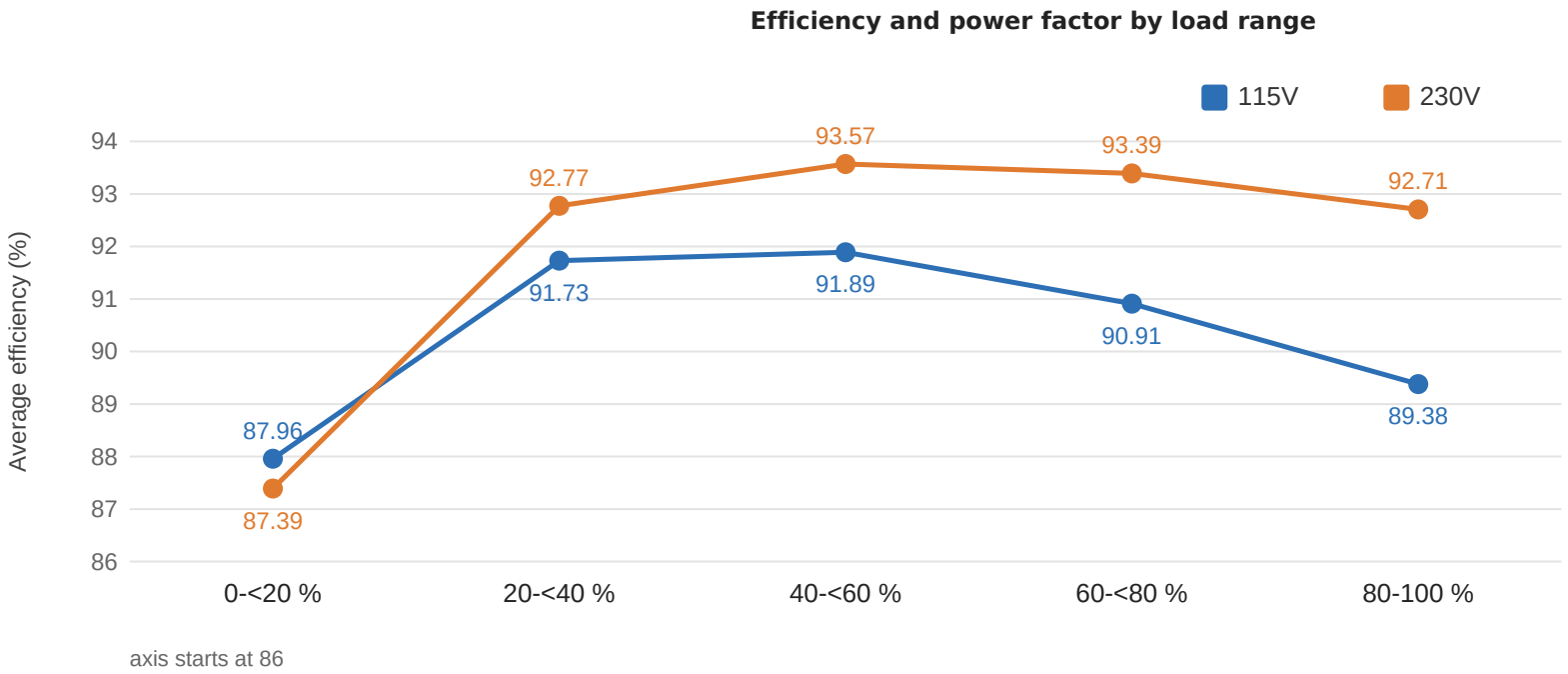
This graph depicts the PSU`s efficiency throughout its entire operational range. For the generation of the efficiency and noise graphs we set our loaders to auto mode through our custom-made software before trying thousands of possible load combinations

230V

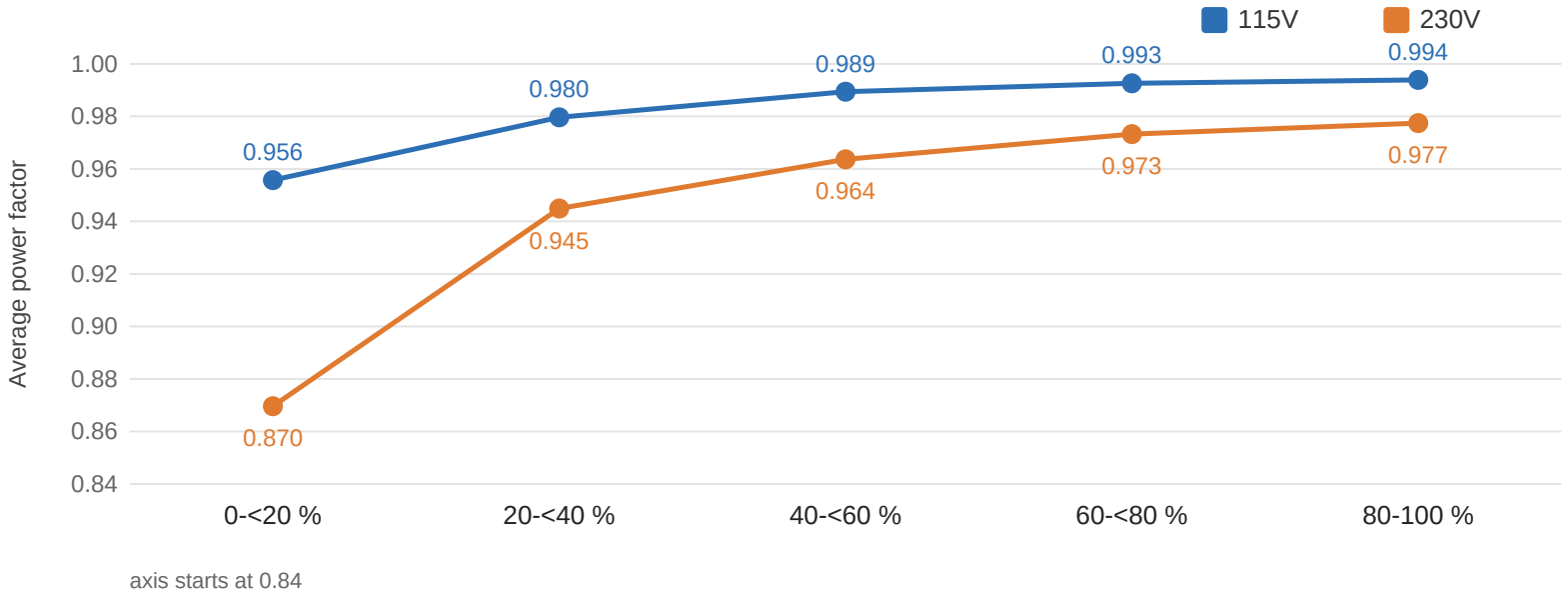


INFO

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



axis starts at 86



axis starts at 0.84

Load range	Points	Efficiency 115V	Efficiency 230V	PF 115V	PF 230V
0-<20 %	210 / 210	87.96%	87.39%	0.956	0.870
20-<40 %	310 / 310	91.73%	92.77%	0.980	0.945
40-<60 %	310 / 310	91.89%	93.57%	0.989	0.964
60-<80 %	310 / 310	90.91%	93.39%	0.993	0.973
80-100 %	318 / 318	89.38%	92.71%	0.994	0.977
70-100 % (High-Load)	473 / 473	89.75%	92.90%	0.994	0.977
All (published average)	1458 / 1458	90.53%	92.28%	0.984	0.951

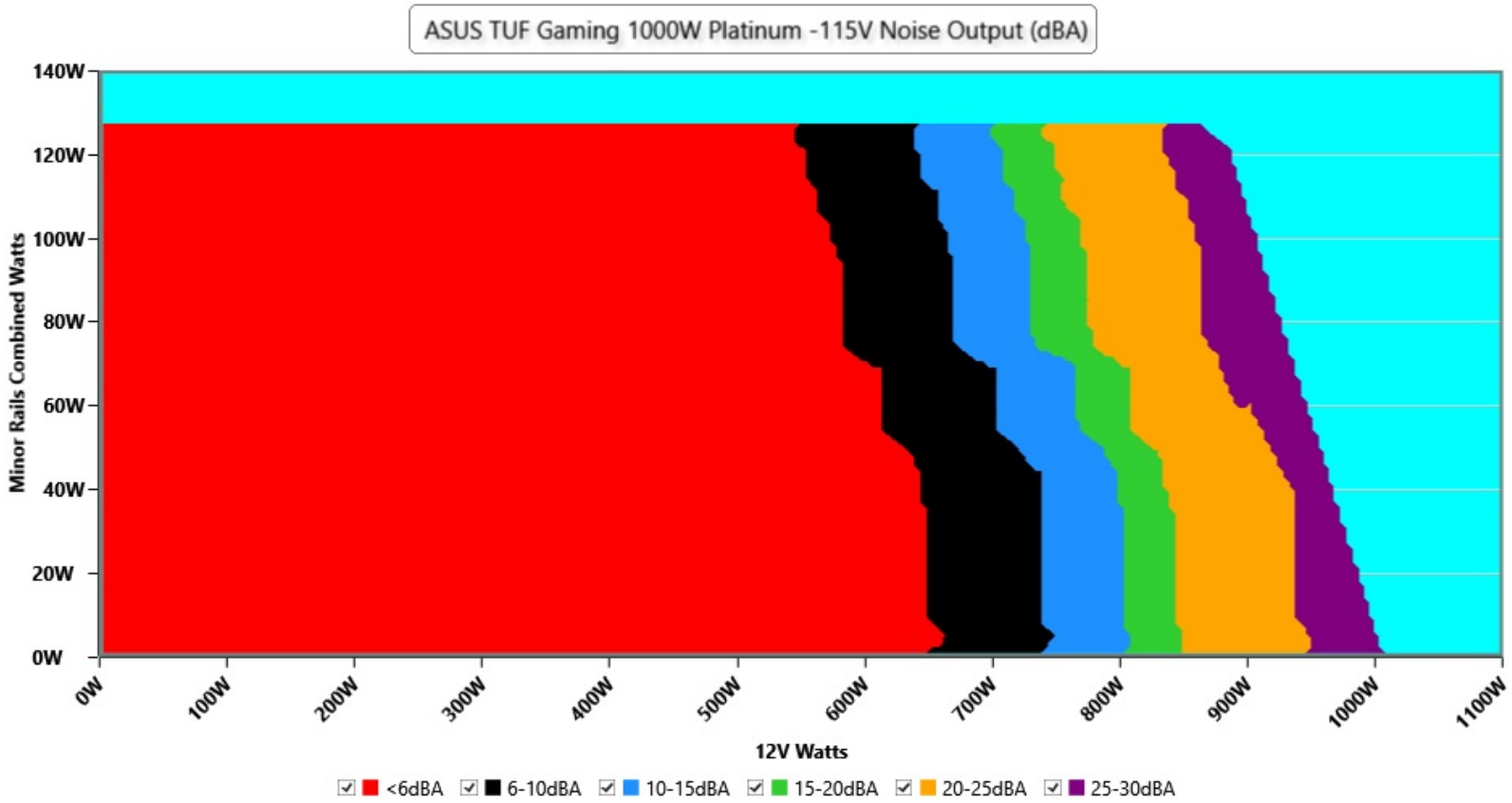
INFO

The average efficiency and power factor in five ranges of load. Calculated from the 1458 (115V) and 1458 (230V) load combinations of the certification sweep, the same data that ETA and LAMBDA use (test 0 excluded). Load is the total DC output as a share of the rated 1000 W. These are plain averages of the valid readings, as for the ETA rating, so the ranges combined give back the published averages.

Informational. Not part of the ETA or LAMBDA rating.

Noise Graph

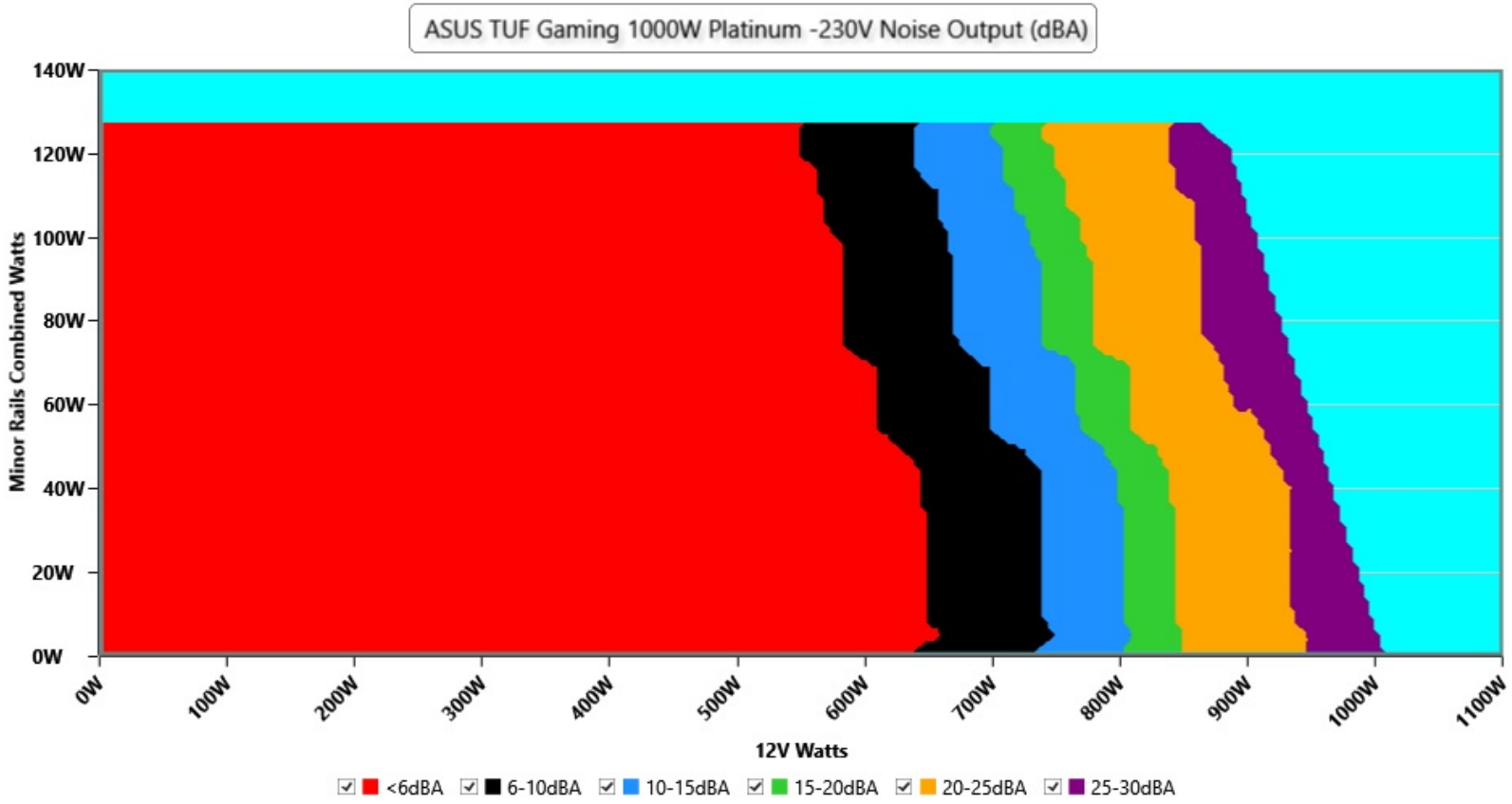
115V



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

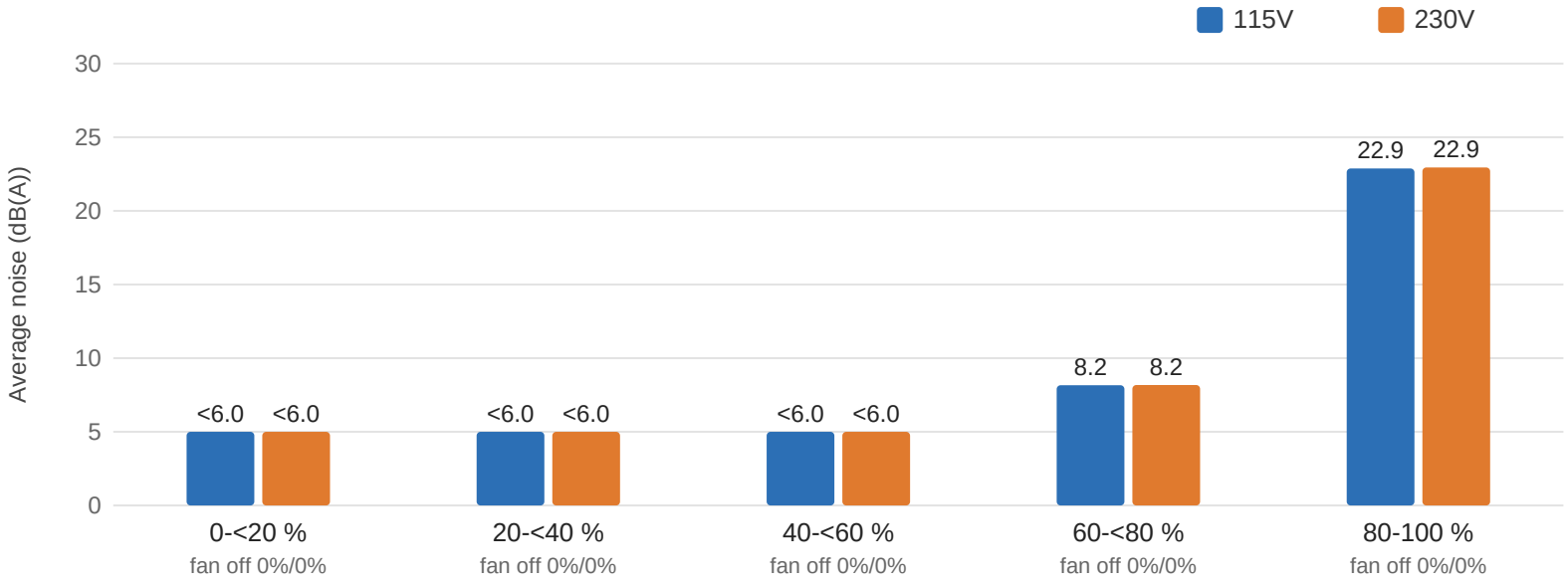
The PSU`s noise in its entire operational range and under 30-32 °C ambient is depicted in this graph. The X axis represents the load on the +12V rail(s) while the Y axis is the load on the minor rails

Noise by load range

High-Load Index (70-100 % load)

Noise **21.3 dB(A)** at 115V and **21.3 dB(A)** at 230V · loudest point 29.1 dB(A)

Efficiency 89.75% / 92.90% · power factor 0.994 / 0.977 (115V / 230V)



Load range	Noise 115V avg (loudest)	Noise 230V avg (loudest)	Fan off 115V / 230V
0-<20 %	<6.0 (<6.0)	<6.0 (<6.0)	0% / 0%
20-<40 %	<6.0 (<6.0)	<6.0 (<6.0)	0% / 0%
40-<60 %	<6.0 (<6.0)	<6.0 (<6.0)	0% / 0%
60-<80 %	8.2 (14.8)	8.2 (14.8)	0% / 0%
80-100 %	22.9 (27.6)	22.9 (29.1)	0% / 0%
70-100 % (High-Load)	21.3 (27.6)	21.3 (29.1)	0% / 0%
All (published average)	16.6 (27.6)	16.6 (29.1)	0% / 0%

INFO

The average noise in five ranges of load, the share of points with the fan stopped (semi-passive operation), and the High-Load Index: the same figures for all points at 70 % of the rated output and above. Calculated from the 1458 (115V) and 1458 (230V) load combinations of the certification sweep, the same data that ETA and LAMBDA use (test 0 excluded). Load is the total DC output as a share of the rated 1000 W. Noise is averaged on the energy scale, as for LAMBDA, so the ranges combined give back the published average noise. Each load combination is held for about five seconds; the stabilized readings at fixed loads are under "Noise under high ambient temperature". Below 6 dB(A), the floor of our sound meter, the table and the chart show <6.0. In the averages a stopped fan counts as 5 dB(A),

as in the published average.

Informational. Not part of the ETA or LAMBDA rating.

Noise under high ambient temperature (indicative)

115V

Load	Normal ambient fan · noise · intake	High ambient fan · noise · intake	Noise change
10%	396 RPM · 7.4 dB(A) · 30.7 °C	407 RPM · 7.5 dB(A) · 40.4 °C	**+0.1 dB(A)**
20%	398 RPM · 7.4 dB(A) · 30.4 °C	408 RPM · 7.6 dB(A) · 40.6 °C	**+0.2 dB(A)**
50%	400 RPM · 7.4 dB(A) · 30.5 °C	412 RPM · 7.6 dB(A) · 42.5 °C	**+0.2 dB(A)**
100%	1056 RPM · 26.6 dB(A) · 30.2 °C	1075 RPM · 27.0 dB(A) · 45.8 °C	**+0.4 dB(A)**

230V

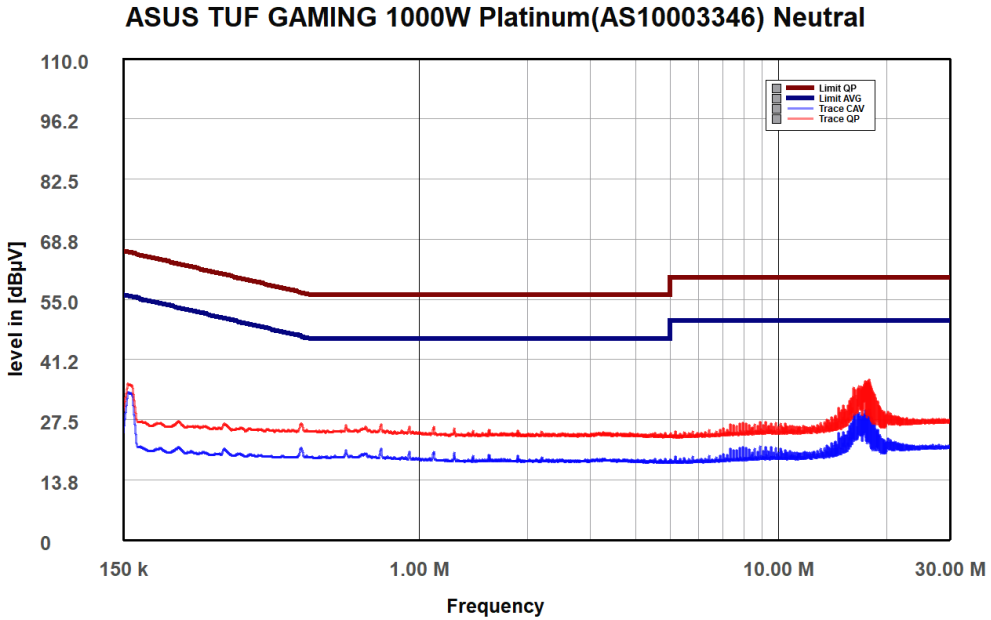
Load	Normal ambient fan · noise · intake	High ambient fan · noise · intake	Noise change
10%	399 RPM · 7.4 dB(A) · 30.2 °C	410 RPM · 7.6 dB(A) · 40.5 °C	**+0.2 dB(A)**
20%	401 RPM · 7.5 dB(A) · 30.7 °C	410 RPM · 7.6 dB(A) · 40.8 °C	**+0.1 dB(A)**
50%	403 RPM · 7.5 dB(A) · 30.9 °C	413 RPM · 7.6 dB(A) · 42.4 °C	**+0.1 dB(A)**
100%	1059 RPM · 26.7 dB(A) · 30.6 °C	1076 RPM · 27.0 dB(A) · 45.7 °C	**+0.3 dB(A)**

INFO

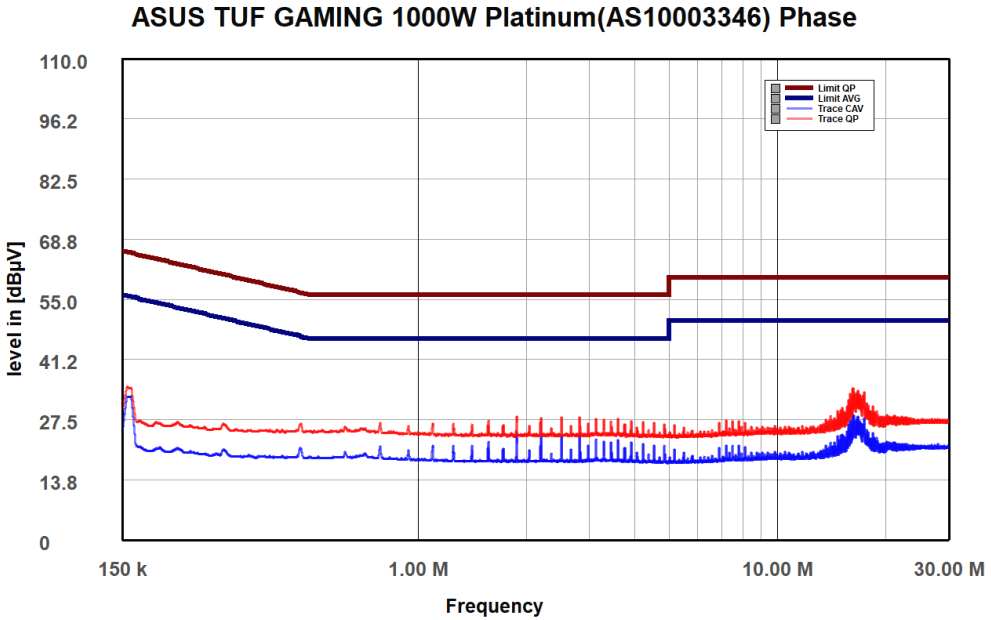
Fan speed, noise and the measured intake temperature at 10, 20, 50 and 100 % load, from the two load regulation tests: at normal ambient (about 30-32 °C) and at high ambient (about 40-47 °C). These are stabilized readings at fixed loads, not averages over the certification sweep, so they are indicative 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.

Conducted Emissions EN 55032 & CISPR 32



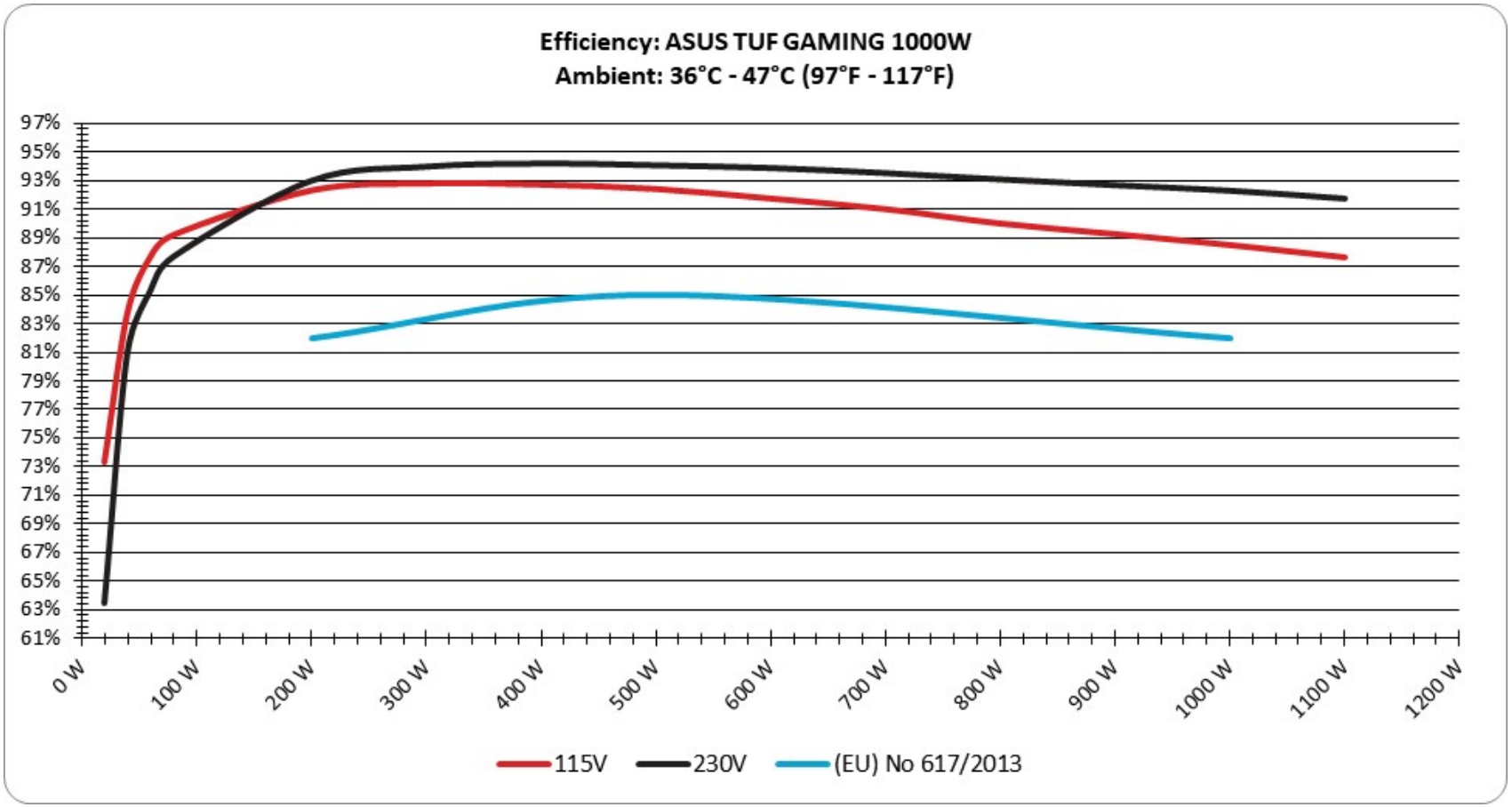
NEUTRAL



PHASE

Indicative Performance

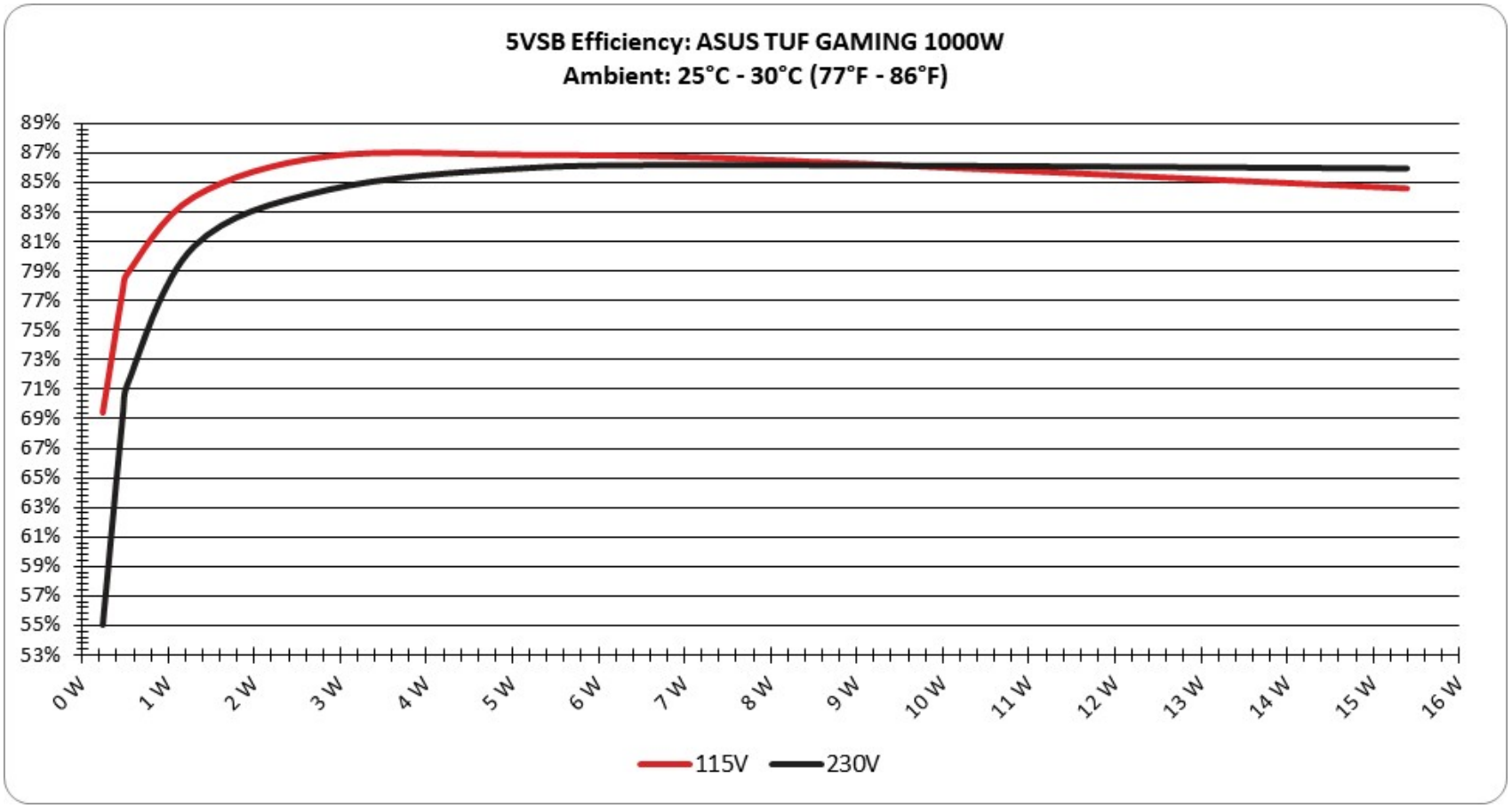
Efficiency under high ambient temperature



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**	0.233W	69.444%	0.034
	5.176V	0.335W		114.86V
2	**0.09A**	0.466W	77.787%	0.059
	5.175V	0.599W		114.88V
3	**0.55A**	2.842W	86.812%	0.255
	5.168V	3.274W		114.87V
4	**1A**	5.161W	86.913%	0.354
	5.161V	5.938W		114.88V
5	**1.5A**	7.731W	86.629%	0.407
	5.154V	8.924W		114.88V
6	**3A**	15.392W	84.637%	0.485
	5.131V	18.186W		114.87V

230V

Test #	5VSB	DC/AC (Watts)	Efficiency	PF/AC Volts
1	**0.045A**	0.233W	55.061%	0.013
	5.175V	0.423W		229.88V
2	**0.09A**	0.466W	69.321%	0.02
	5.174V	0.672W		229.89V
3	**0.55A**	2.842W	84.486%	0.096
	5.167V	3.364W		229.89V
4	**1A**	5.16W	85.977%	0.16
	5.16V	6.002W		229.9V
5	**1.5A**	7.73W	86.172%	0.219
	5.153V	8.97W		229.89V
6	**3A**	15.39W	85.951%	0.325
	5.13V	17.906W		229.89V

Protection Features

OCP (Normal @ 29°C)	12V: 107A (128.41%), 12.039V 5V: 34.2A (136.8%), 5.109V 3.3V: 34.1A (136.4%), 3.275V 5VSB: 5.9A (196.67%), 5.075V
OCP (Hot @ 41.9°C)	12V: 104.4A (125.29%), 12.038V 5V: 32.5A (130%), 5.11V 3.3V: 34A (136%), 3.276V 5VSB: 5.6A (186.67%), 5.079V
OPP (Normal @ 29.8°C)	1270.11W (127.01%)
OPP (Hot @ 42°C)	1237.07W (123.71%)
OTP	✓ (130°C @ 12V Heatsink)
SCP	12V to Earth: ✓ 5V to Earth: ✓ 3.3V to Earth: ✓ 5VSB to Earth: ✓ -12V to Earth: ✓
PWR_OK	Proper Operation
UVP (Typical 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%	**6.479A**	**1.95A**	**2.001A**	**0.97A**	99.984	89.967%	407	7.5	40.41°C	0.959
	12.098V	5.128V	3.298V	5.153V	111.134				43.22°C	114.85V
20%	**13.979A**	**2.925A**	**3.003A**	**1.167A**	199.931	92.331%	408	7.6	40.64°C	0.97
	12.091V	5.127V	3.297V	5.143V	216.536				45.39°C	114.8V
30%	**21.837A**	**3.414A**	**3.505A**	**1.364A**	299.976	92.819%	409	7.6	41.39°C	0.981
	12.086V	5.126V	3.295V	5.133V	323.184				46.95°C	114.77V
40%	**29.659A**	**3.902A**	**4.007A**	**1.562A**	399.467	92.743%	410	7.6	41.99°C	0.987
	12.080V	5.125V	3.294V	5.123V	430.725				48.88°C	114.73V
50%	**37.164A**	**4.88A**	**5.011A**	**1.76A**	499.183	92.441%	412	7.6	42.48°C	0.99
	12.073V	5.123V	3.293V	5.113V	540				51.73°C	114.72V
60%	**44.744A**	**5.857A**	**6.016A**	**1.96A**	599.722	91.774%	413	7.6	42.82°C	0.992
	12.067V	5.122V	3.291V	5.103V	653.478				55.38°C	114.68V
70%	**52.269A**	**6.836A**	**7.025A**	**2.16A**	699.457	91.033%	438	8.0	43.17°C	0.993
	12.060V	5.12V	3.289V	5.093V	768.353				59.02°C	114.63V
80%	**59.866A**	**7.814A**	**8.032A**	**2.262A**	799.459	90.029%	617	11.8	43.55°C	0.994
	12.053V	5.118V	3.286V	5.084V	888.004				59.82°C	114.6V
90%	**67.803A**	**8.305A**	**8.519A**	**2.365A**	899.275	89.295%	857	20.7	44.82°C	0.994
	12.047V	5.117V	3.286V	5.075V	1007.087				60.74°C	114.54V
100%	**75.547A**	**8.795A**	**9.042A**	**2.965A**	999.293	88.53%	1075	27.0	45.81°C	0.995
	12.041V	5.116V	3.284V	5.059V	1128.768				60.52°C	114.52V
110%	**83.229A**	**9.776A**	**10.157A**	**2.97A**	1099.889	87.666%	1288	32.3	46.35°C	0.996
	12.034V	5.114V	3.278V	5.052V	1254.638				61.47°C	114.46V
CL1	**0.115A**	**14.713A**	**15.11A**	**0A**	126.287	84.994%	413	7.6	40.74°C	0.963
	12.095V	5.118V	3.282V	5.155V	148.583				56.42°C	114.83V

Test	12V	5V	3.3V	5VSB	DC/AC (Watts)	Efficiency	Fan Speed (RPM)	PSU Noise (dB[A])	Temps (In/Out)	PF/AC Volts
CL2	**0.114A**	**24.403A**	**0A**	**0A**	126.214	82.952%	413	7.6	40.64°C	0.963
	12.089V	5.116V	3.294V	5.159V	152.152				53.79°C	114.82V
CL3	**0.114A**	**0A**	**25.132A**	**0A**	83.877	77.125%	434	8.0	40.5°C	0.959
	12.105V	5.127V	3.282V	5.159V	108.755				50.61°C	114.83V
CL4	**83.023A**	**0A**	**0A**	**0A**	999.891	89.319%	1104	27.7	45.86°C	0.995
	12.044V	5.126V	3.295V	5.112V	1119.456				55.98°C	114.52V

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%	**6.483A**	**1.949A**	**2A**	**0.971A**	99.982	88.936%	410	7.6	40.49°C	0.87
	12.090V	5.129V	3.3V	5.151V	112.419				45.79°C	229.87V
20%	**13.978A**	**2.925A**	**3.002A**	**1.167A**	199.929	93.002%	410	7.6	40.78°C	0.924
	12.092V	5.127V	3.298V	5.141V	214.973				46.23°C	229.85V
30%	**21.837A**	**3.414A**	**3.504A**	**1.364A**	299.972	93.997%	410	7.6	41.4°C	0.948
	12.086V	5.126V	3.297V	5.132V	319.129				47.49°C	229.83V
40%	**29.660A**	**3.903A**	**4.006A**	**1.562A**	399.475	94.214%	411	7.6	41.67°C	0.957
	12.079V	5.125V	3.295V	5.122V	424.008				48.9°C	229.83V
50%	**37.167A**	**4.88A**	**5.01A**	**1.761A**	499.209	94.087%	413	7.6	42.35°C	0.965
	12.073V	5.123V	3.294V	5.112V	530.585				51.53°C	229.82V
60%	**44.742A**	**5.857A**	**6.015A**	**1.96A**	599.685	93.898%	414	7.6	42.55°C	0.97
	12.067V	5.122V	3.292V	5.102V	638.657				52.54°C	229.79V
70%	**52.267A**	**6.836A**	**7.022A**	**2.161A**	699.449	93.548%	422	7.8	43.14°C	0.973
	12.060V	5.12V	3.29V	5.092V	747.692				55.19°C	229.78V
80%	**59.864A**	**7.814A**	**8.03A**	**2.263A**	799.467	93.105%	616	11.8	43.63°C	0.976
	12.053V	5.118V	3.287V	5.082V	858.675				57.11°C	229.77V
90%	**67.800A**	**8.304A**	**8.521A**	**2.365A**	899.28	92.705%	857	20.7	44.38°C	0.978
	12.048V	5.117V	3.285V	5.074V	970.041				56.68°C	229.74V

Test	12V	5V	3.3V	5VSB	DC/AC (Watts)	Efficiency	Fan Speed (RPM)	PSU Noise (dB[A])	Temps (In/Out)	PF/AC Volts
100%	**75.542A**	**8.795A**	**9.04A**	**2.966A**	999.297	92.316%	1076	27.0	45.7°C	0.98
	12.042V	5.116V	3.285V	5.058V	1082.473				57.08°C	229.72V
110%	**83.223A**	**9.775A**	**10.142A**	**2.97A**	1099.885	91.763%	1290	32.3	46.77°C	0.982
	12.035V	5.114V	3.283V	5.05V	1198.613				59.44°C	229.72V
CL1	**0.114A**	**14.713A**	**15.09A**	**0A**	126.286	86.146%	414	7.6	40.93°C	0.894
	12.096V	5.118V	3.287V	5.154V	146.596				56.19°C	229.87V
CL2	**0.114A**	**24.402A**	**0A**	**0A**	126.213	82.797%	413	7.6	40.15°C	0.898
	12.090V	5.116V	3.298V	5.157V	152.436				53.29°C	229.87V
CL3	**0.114A**	**0A**	**25.125A**	**0A**	83.877	75.341%	436	8.0	40.62°C	0.869
	12.099V	5.127V	3.283V	5.157V	111.33				52.72°C	229.88V
CL4	**83.019A**	**0A**	**0A**	**0A**	999.919	92.861%	1103	27.7	45.81°C	0.98
	12.045V	5.126V	3.296V	5.111V	1076.796				52.83°C	229.73V

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	**1.227A**	**0.487A**	**0.5A**	**0.193A**	20	73.366%	402	7.5	36.78°C	0.85
	12.104V	5.131V	3.3V	5.17V	27.26				39.4°C	114.87V
40W	**2.701A**	**0.682A**	**0.7A**	**0.29A**	39.998	83.781%	403	7.5	37.65°C	0.936
	12.102V	5.131V	3.3V	5.168V	47.741				39.61°C	114.87V
60W	**4.176A**	**0.877A**	**0.9A**	**0.387A**	59.997	87.7%	404	7.5	38.82°C	0.937
	12.101V	5.13V	3.3V	5.165V	68.412				40.84°C	114.85V
80W	**5.646A**	**1.072A**	**1.1A**	**0.484A**	79.934	89.222%	406	7.5	39.38°C	0.953
	12.100V	5.13V	3.3V	5.162V	89.589				42.61°C	114.86V

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	**1.226A**	**0.487A**	**0.5A**	**0.194A**	19.996	63.457%	403	7.5	36.21°C	0.579
	12.105V	5.131V	3.301V	5.169V	31.511				37.22°C	229.89V
40W	**2.702A**	**0.682A**	**0.7A**	**0.29A**	39.997	80.977%	405	7.5	37.48°C	0.711
	12.098V	5.131V	3.301V	5.166V	49.392				39.43°C	229.89V
60W	**4.178A**	**0.877A**	**0.899A**	**0.387A**	59.996	85.312%	408	7.6	38.91°C	0.792
	12.095V	5.131V	3.301V	5.163V	70.325				41.76°C	229.89V
80W	**5.648A**	**1.072A**	**1.1A**	**0.484A**	79.931	87.692%	409	7.6	39.41°C	0.841
	12.092V	5.13V	3.301V	5.16V	91.149				44.07°C	229.87V

The results above are not used in the certification process

Ripple Measurements

115V

Test	12V	5V	3.3V	5VSB	Pass/Fail
10% Load	29.92mV	20.73mV	19.96mV	15.39mV	Pass
20% Load	29.87mV	22.38mV	20.26mV	15.39mV	Pass
30% Load	30.24mV	24.63mV	21.65mV	16.26mV	Pass
40% Load	31.61mV	21.71mV	20.47mV	16.27mV	Pass
50% Load	33.45mV	22.53mV	20.16mV	17.04mV	Pass
60% Load	33.96mV	21.50mV	20.06mV	18.47mV	Pass
70% Load	37.48mV	23.70mV	20.74mV	19.31mV	Pass
80% Load	41.53mV	25.10mV	22.93mV	20.52mV	Pass
90% Load	44.55mV	24.74mV	24.37mV	19.19mV	Pass
100% Load	41.48mV	23.81mV	24.47mV	23.19mV	Pass
110% Load	43.01mV	23.81mV	23.50mV	23.55mV	Pass
Crossload1	30.64mV	22.37mV	20.88mV	17.55mV	Pass
Crossload2	31.20mV	25.71mV	20.73mV	16.98mV	Pass

Test	12V	5V	3.3V	5VSB	Pass/Fail
Crossload3	32.58mV	21.14mV	40.32mV	17.50mV	Pass
Crossload4	39.43mV	25.50mV	21.96mV	20.94mV	Pass

The results above are not used in the certification process

230V

Test	12V	5V	3.3V	5VSB	Pass/Fail
10% Load	26.65mV	20.68mV	19.29mV	15.60mV	Pass
20% Load	32.58mV	21.25mV	19.39mV	15.65mV	Pass
30% Load	35.19mV	20.99mV	19.90mV	16.37mV	Pass
40% Load	34.17mV	22.48mV	20.98mV	17.60mV	Pass
50% Load	33.86mV	21.71mV	20.22mV	17.80mV	Pass
60% Load	38.91mV	22.73mV	20.06mV	19.29mV	Pass
70% Load	35.91mV	21.61mV	20.11mV	18.67mV	Pass
80% Load	41.02mV	25.15mV	25.04mV	20.22mV	Pass
90% Load	43.17mV	23.91mV	24.93mV	20.22mV	Pass
100% Load	42.19mV	24.84mV	25.91mV	23.76mV	Pass
110% Load	44.55mV	23.76mV	25.19mV	24.99mV	Pass
Crossload1	31.45mV	22.68mV	20.26mV	17.08mV	Pass
Crossload2	36.24mV	26.58mV	20.73mV	17.04mV	Pass
Crossload3	39.33mV	20.99mV	22.57mV	16.78mV	Pass
Crossload4	38.72mV	26.28mV	22.27mV	21.75mV	Pass

The results above are not used in the certification process

ASUS TUF Gaming 1000W Platinum



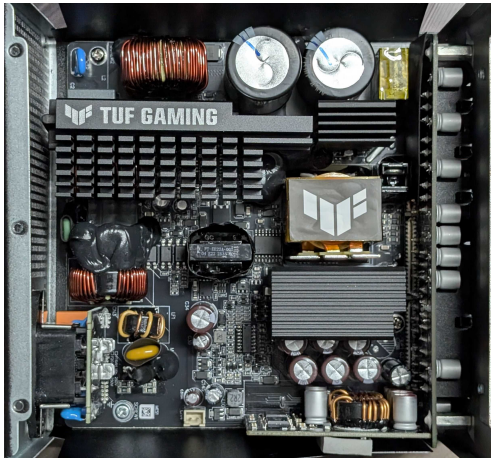
Top side



Power specifications label



Fan



PSU Internals

All data and graphs included in this test report can be used by any individual on the following conditions:
› It should be mentioned that the test results are provided by Cybenetics
› The link to the original test results document should be provided in any case

Cybenetics runs voluntary certification programs for power supplies - ETA for efficiency, LAMBDA for noise and SAFE for safety and correct operation - and for cooling products, with DELTA for chassis soundproofing and PHI for fan airflow and static pressure. THETA rates cooler performance on AMD AM5 and Intel LGA1851 outside ISO 17065 and accreditation scope

CYBENETICS LTD Syrou 6, Latsia, 2231, Nicosia Cyprus

www.cybenetics.com - info@cybenetics.com