



Montech Titan PLA 850W

Serial Number

Lab ID MT85002308

Certification ID 252308

Test Result Report ID: 23PS2308A

Certificate Issue Date: Dec 18, 2023

115V

230V

Scheme: ETA-EMI PSU



115V

230V

Scheme: LAMBDA PSU





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	Brueel & Kjaer 2270 G4
Microphone	Brueel & 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	Montech
Model	Titan PLA 850W
OEM/ODM	Seasonic
Serial Number	
Product Specifications	
Manufacturer-Provided Information	
Rated Voltage (Vrms)	100-240
Rated Current (Arms)	11-5.5

Rated Frequency (Hz)	50-60
Rated Power (W)	850
Operating Temperature (Continuous Full Load) (°C)	
Type	ATX12V
Cable Design	Fully Modular
Warranty	-
Cybenetics Measurements	
Dimensions (W x H x D)	
Weight	
Cooling	135mm Fluid Dynamic Bearing Fan (HA13525H12F-Z)
Semi-Passive Operation	✓ (selectable)
Cybenetics Testing Information	
Lab ID	MT85002308
Date of receipt	Nov 30, 2023
Testing Date	Dec 18, 2023
Report Issued Date	Dec 18, 2023
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 (630mm)	1	1	16-18AWG	No
4+4 pin EPS12V (710mm)	2	2	16AWG	No
6+2 pin PCIe (760mm)	3	3	16-18AWG	No
12+4 pin PCIe (760mm) (600W)	1	1	16-28AWG	No
SATA 3.3 (410mm+155mm)	1	2	18AWG	No
SATA (510mm+155mm+155mm+155mm)	4	16	18AWG	No
4-pin Molex (460mm+125mm+125mm)	1	3	18AWG	No

Power Specifications

Rail		3.3V	5V	12V	5VSB	-12V
Max. Power	Amps	20	20	70	3	0.3
	Watts	100		840	15	3.6
Total Max. Power (W)		850				

Parts Description

General Data	
Manufacturer (OEM)	Seasonic
PCB Type	Double-Sided
Primary Side	
Transient Filter	4x Y caps, 2x X caps, 2x CM chokes, 1x MOV
Inrush Protection	1x NTC Thermistor MF72 5D-20 (5 Ohm) & Relay
Bridge Rectifier(s)	2x
APFC MOSFETs	2x Infineon IPA60R160P6 (650V, 23.8A @ 25°C, Rds(on): 0.160Ohm)
APFC Boost Diode	1x IDH08G65C6 (650V, 8A @ 145°C)
Bulk Cap(s)	1x Nippon Chemi-con (420V, 390uF, 2,000h @ 105°C, KMR) 1x Nippon Chemi-con (420V, 330uF, 2,000h @ 105°C, KMR)
Main Switchers	4x Infineon IPA60R190P6 (600V, 12.7A @ 100°C, Rds(on): 0.190Ohm)
APFC Controller	Champion CM6500UNX
Resonant Controller	Champion CU6901VPA
Topology	Primary side: APFC, Full-Bridge & LLC converter Secondary side: Synchronous Rectification & DC-DC converters
Secondary Side	
+12V MOSFETs	6x Nexperia PSMN1R0-40YLD (40V, 280A @ 25°C, Rds(on): 1.1mOhm)
5V & 3.3V	DC-DC Converters: 6x Nexperia PSMN4R0-30YLD (30V, 95A @ 25°C, Rds(on): 4mOhm) PWM Controller(s): ANPEC APW7159C

Filtering Capacitors	Electrolytic: 3x Nichicon (2-5,000h @ 105°C, HD , 5x Nippon Chemi-Con (5-6,000h @ 105°C, KZH), 5x Rubycon (3-6,000h @ 105°C, YXG), Polymer: 25x Nichicon FPCAP
Supervisor IC	Weltrend WT7527RA (OCP, OVP, UVP, SCP, PG)
Fan Controller	Nuvoton M031
Fan Model	Hong Hua HA13525H12F-Z (135mm, 12V, 0.5A, Fluid Dynamic Bearing Fan)
5VSB Circuit	
Rectifier	1x DK5V45R10S (45V, 10A)
Standby PWM Controller	Excelliance MOS EM85690

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 v3.0 Compliance	✓

Performance Summary

115V

Accredited	
Average Efficiency (>1450 load combinations)	90.076%
Average Noise Output (>1450 Load Combinations)	18.31dBA
Average PF (>1450 Load Combinations)	0.975
Efficiency With 10W (≤500W) or 2% (>500W) Load	76.024%
Standby Power Consumption	0.0442W

Non-Accredited	
12V Ripple (Full Load)	29.38mV
5V Ripple (Full Load)	19.60mV
3.3V Ripple (Full Load)	19.39mV
5VSB Ripple (Full Load)	29.47mV
12V Load Regulation	0.92%
5V Load Regulation	0.44%
3.3V Load Regulation	0.72%
5VSB Load Regulation	2.03%
Inrush Current	32.840A

230V

Accredited	
Average Efficiency (>1450 load combinations)	92.248%
Average Noise Output (>1450 Load Combinations)	18.26dBA
Average PF (>1450 Load Combinations)	0.935
Efficiency With 10W ($\leq 500W$) or 2% (>500W) Load	75.832%
Standby Power Consumption	0.1167W
Non-Accredited	
12V Ripple (Full Load)	32.16mV
5V Ripple (Full Load)	19.87mV
3.3V Ripple (Full Load)	21.55mV
5VSB Ripple (Full Load)	30.64mV
12V Load Regulation	0.80%
5V Load Regulation	0.46%
3.3V Load Regulation	0.81%
5VSB Load Regulation	2.05%
Inrush Current	67.500A
12V Transient Response (200%)	11.64V
5V Transient Response (200%)	4.951V
3.3V Transient Response (200%)	3.214V
5VSB Transient Response (200%)	4.983V

Hold-Up Time & PWR_OK Signal	22.00ms	
AC Loss to PWR_OK Hold Up Time	17.90ms	
PWR_OK Inactive to DC Loss Delay	4.10ms	
PSU Timings: T1 (20% / 100%)	72.0ms	72.0ms
PSU Timings: T3 (20% / 100%)	125.0ms	124.0ms
12V OCP (24.9°C / 40.6°C)	98.20A (140.29%), 12.193V	98.00A (140.00%), 12.210V
5V OCP (24.9°C / 40.6°C)	30A (150.00%), 5.018V	29.9A (149.50%), 5.018V
3.3V OCP (24.9°C / 40.6°C)	30A (150.00%), 3.331V	29.9A (149.50%), 3.332V
5VSB OCP (24.9°C / 40.6°C)	6.5A (216.67%), 4.988V	6.5A (216.67%), 4.985V
OPP (24.98°C / 39.58°C)	143.30%	141.54%

Hold-Up Time & PWR_OK Signal

Hold-Up Time (ms)	22
AC Loss to PWR_OK Hold Up Time (ms)	17.9
PWR_OK Inactive to DC Loss Delay (ms)	4.1

Vampire Power

Tables

115V

Detailed Results						
	Average	Min	Limit Min	Max	Limit Max	Result
Mains Voltage RMS:	114.88 V	114.84 V	113.85 V	114.92 V	116.15 V	PASS
Mains Frequency:	60.00 Hz	59.99 Hz	59.40 Hz	60.02 Hz	60.60 Hz	PASS
Mains Voltage CF:	1.416	1.415	1.340	1.419	1.490	PASS
Mains Voltage THD:	0.13 %	0.11 %	N/A	0.17 %	2.00 %	PASS
Real Power:	0.044 W	-0.005 W	N/A	0.087 W	N/A	N/A
Apparent Power:	10.408 W	10.379 W	N/A	10.448 W	N/A	N/A
Power Factor:	0.007	N/A	N/A	N/A	N/A	N/A

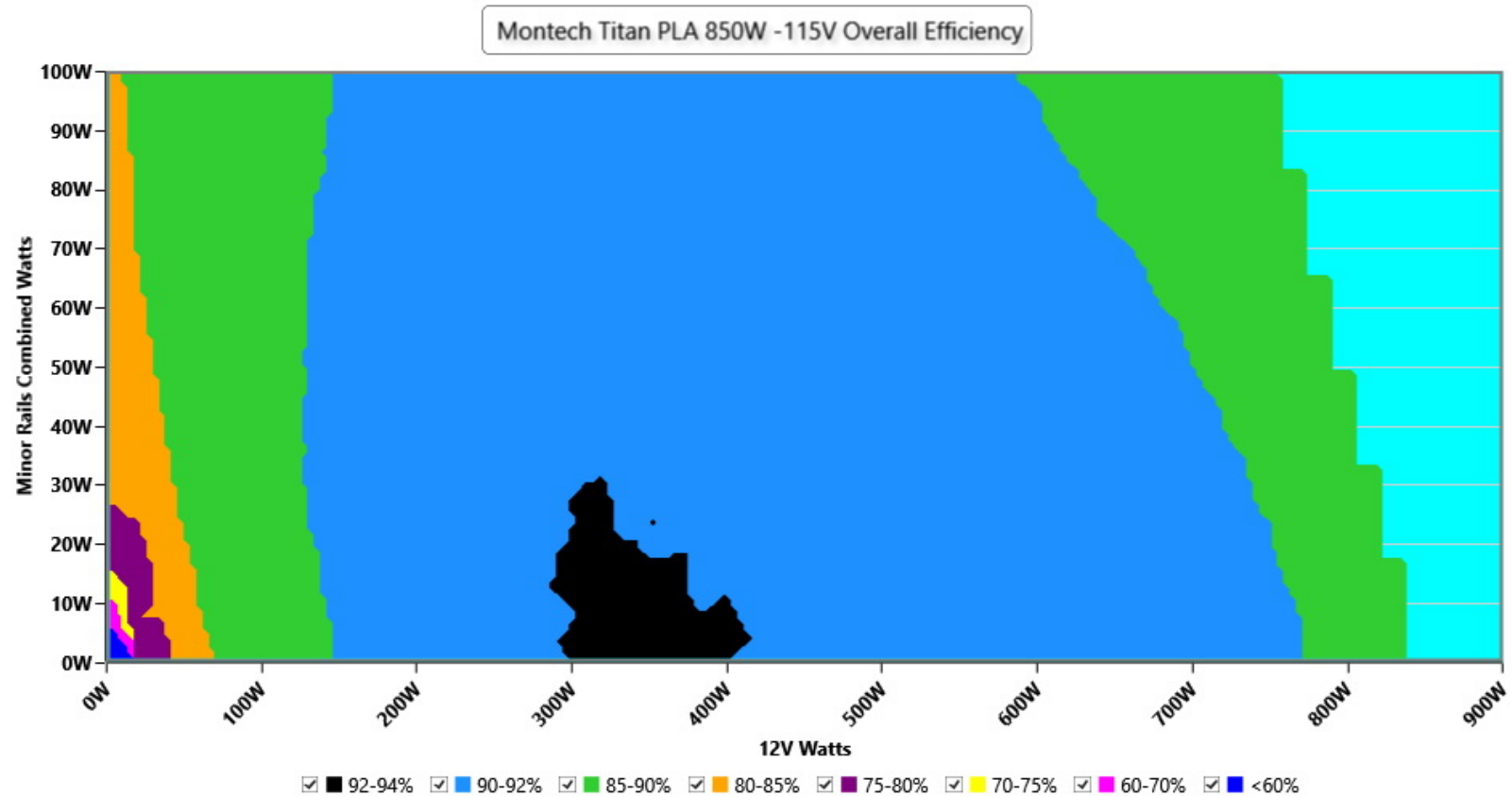
230V

Detailed Results

	Average	Min	Limit Min	Max	Limit Max	Result
Mains Voltage RMS:	229.97 V	229.90 V	227.70 V	229.99 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:	1.416	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:	0.117 W	0.071 W	N/A	0.174 W	N/A	N/A
Apparent Power:	35.037 W	34.995 W	N/A	35.079 W	N/A	N/A
Power Factor:	0.004	N/A	N/A	N/A	N/A	N/A

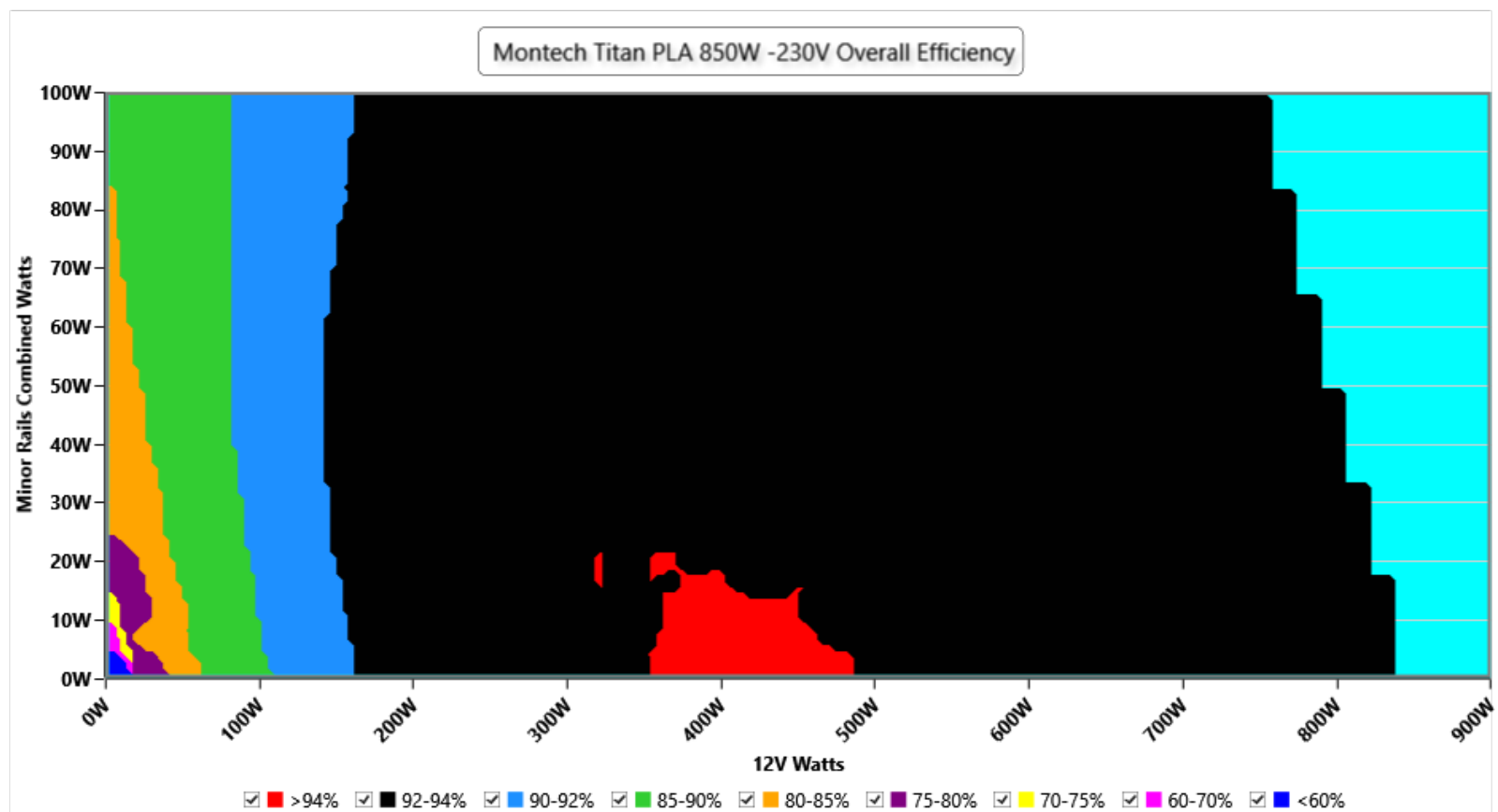
Efficiency Graph

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

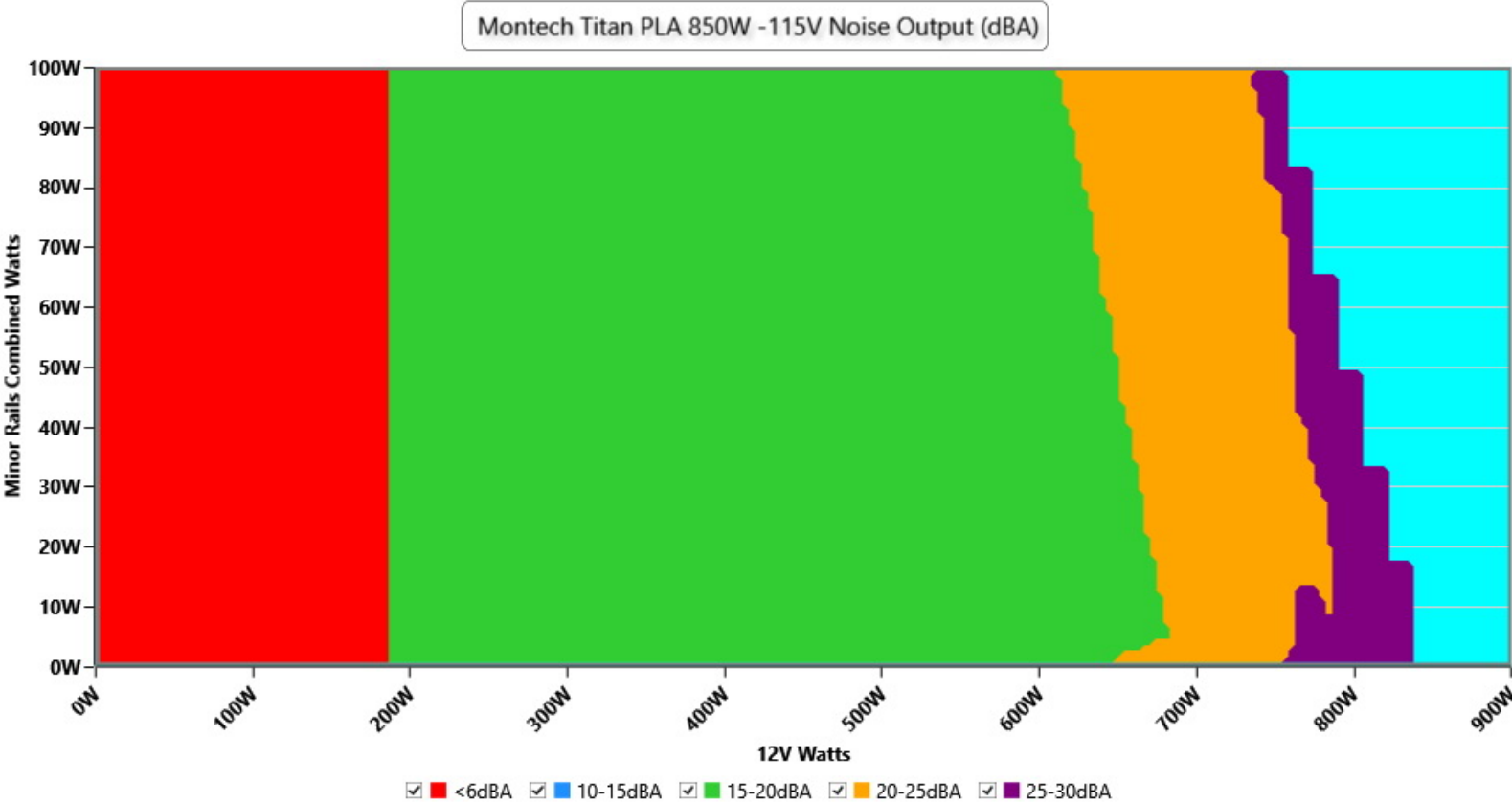


INFO

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

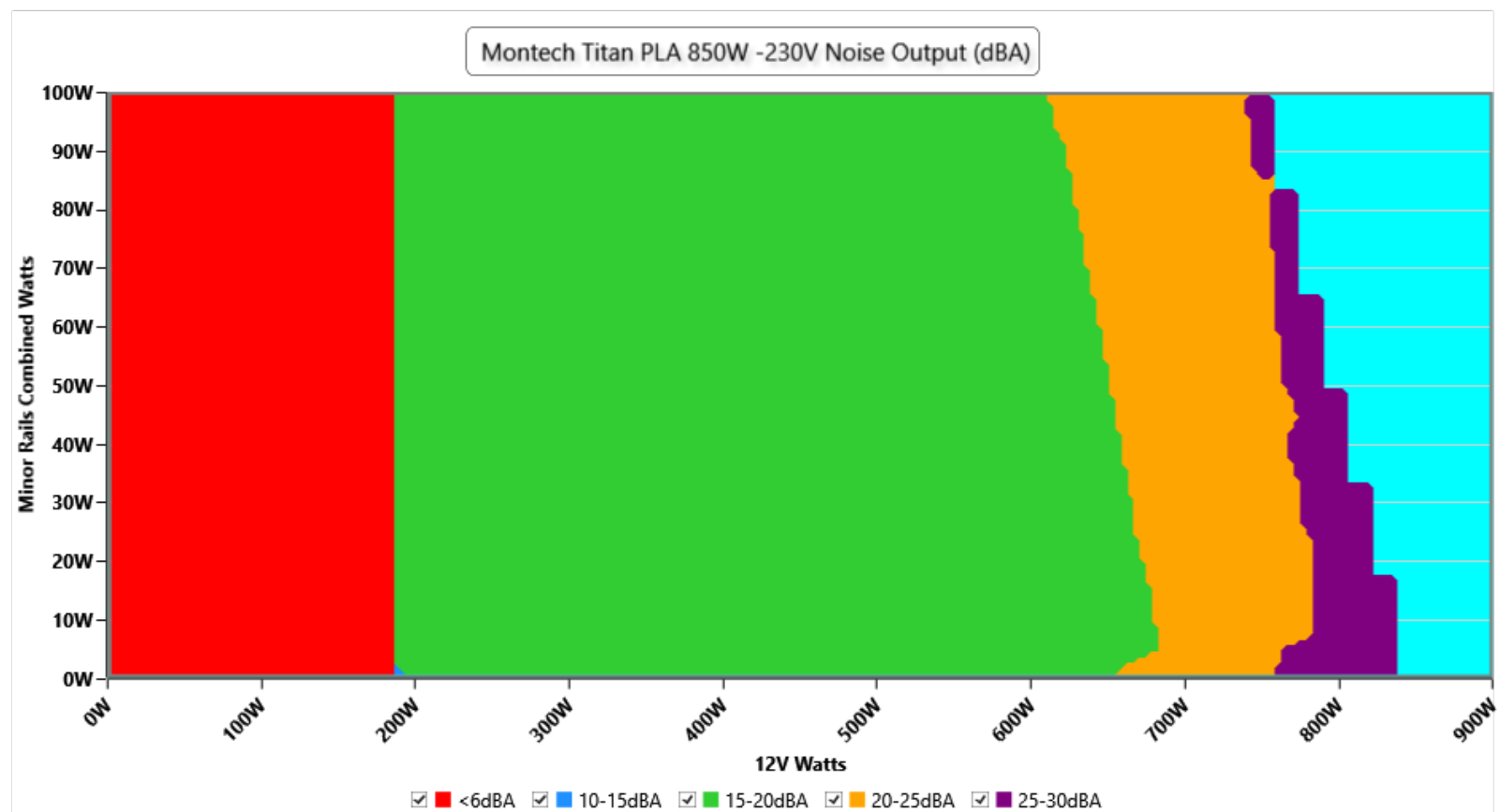
Noise Graph

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



INFO

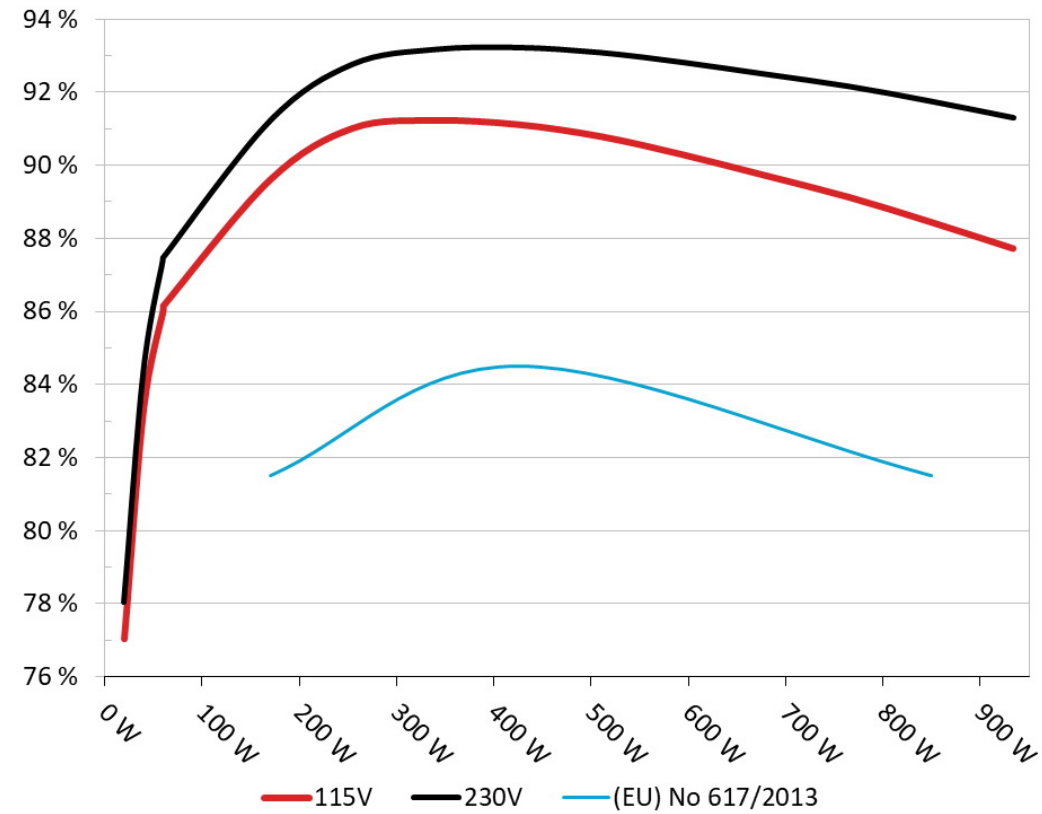
The PSU's noise in its entire operational range and under 30-32 °C ambient is depicted in this graph. The X axis represents the load on the +12V rail(s) while the Y axis is the load on the minor rails

Indicative Performance

Efficiency under high ambient temperature

Efficiency: Montech Titan PLA 850W

Ambient: 37°C - 47°C (98.6°F - 116.6°F)



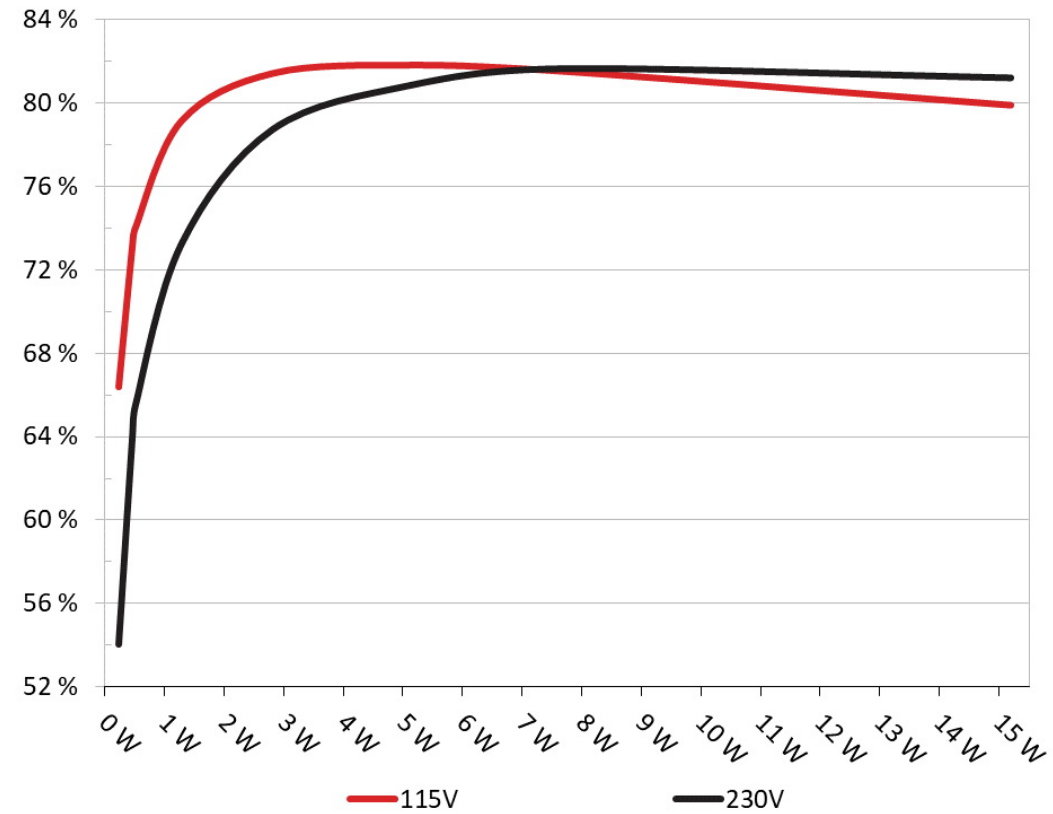
INFO

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

5VSB Efficiency: Montech Titan PLA 850W

Ambient: 34°C - 36°C (93.2°F - 96.8°F)



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	0.231W	66.901%	0.033
	5.127V	0.346W		114.88V
2	0.09A	0.461W	73.682%	0.06
	5.126V	0.626W		114.88V
3	0.55A	2.813W	81.891%	0.261
	5.116V	3.435W		114.88V
4	1A	5.106W	82.285%	0.357
	5.106V	6.205W		114.87V
5	1.5A	7.644W	81.994%	0.417
	5.096V	9.322W		114.87V
6	3A	15.189W	80.369%	0.494
	5.063V	18.899W		114.87V

230V

Test #	5VSB	DC/AC (Watts)	Efficiency	PF/AC Volts
1	0.045A	0.231W	54.545%	0.012
	5.127V	0.424W		229.95V
2	0.09A	0.461W	64.555%	0.021
	5.126V	0.714W		229.95V
3	0.55A	2.813W	79.229%	0.099
	5.115V	3.551W		229.95V
4	1A	5.106W	81.33%	0.164
	5.106V	6.278W		229.95V
5	1.5A	7.644W	82.139%	0.222
	5.096V	9.306W		229.94V
6	3A	15.193W	81.696%	0.332
	5.064V	18.597W		229.94V

Protection Features

OCP (Normal @ 24.9°C)	12V: 98.20A (140.29%), 12.193V 5V: 30A (150.00%), 5.018V 3.3V: 30A (150.00%), 3.331V 5VSB: 6.5A (216.67%), 4.988V
OCP (Hot @ 40.6°C)	12V: 98.00A (140.00%), 12.210V 5V: 29.9A (149.50%), 5.018V 3.3V: 29.9A (149.50%), 3.332V 5VSB: 6.5A (216.67%), 4.985V
OPP (Normal @ 25.0°C)	1218.08W (143.30%)
OPP (Hot @ 39.6°C)	1203.07W (141.54%)
OTP	✓ (115°C @ Primary Heatsink)
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)

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%	5.194A	1.982A	1.971A	0.98A	84.994	86.63%	0	<6.0	44.25°C	0.933
	12.208V	5.044V	3.349V	5.104V	98.112				40°C	114.84V

Test	12V	5V	3.3V	5VSB	DC/AC (Watts)	Efficiency	Fan Speed (RPM)	PSU Noise (dB[A])	Temps (In/Out)	PF/AC Volts
20%	11.384A	2.975A	2.958A	1.177A	169.915	90.085%	0	<6.0	45.1°C	0.958
	12.211V	5.042V	3.347V	5.096V	188.618				40.53°C	114.82V
30%	17.946A	3.472A	3.453A	1.376A	254.916	91.498%	0	<6.0	46.12°C	0.97
	12.195V	5.04V	3.345V	5.087V	278.598				41.02°C	114.79V
40%	24.503A	3.97A	3.95A	1.575A	339.995	91.709%	707	15.7	41.62°C	0.976
	12.194V	5.038V	3.342V	5.079V	370.735				47.27°C	114.76V
50%	30.701A	4.965A	4.941A	1.775A	424.755	91.599%	704	15.6	42.13°C	0.979
	12.190V	5.036V	3.339V	5.07V	463.711				48.13°C	114.73V
60%	36.869A	5.96A	5.934A	1.976A	509.307	91.274%	699	15.4	42.61°C	0.982
	12.192V	5.034V	3.337V	5.061V	557.995				49.24°C	114.7V
70%	43.093A	6.957A	6.929A	2.177A	594.629	90.773%	745	17.7	43.12°C	0.984
	12.195V	5.032V	3.334V	5.052V	655.07				50.14°C	114.67V
80%	49.314A	7.954A	7.923A	2.279A	679.47	90.203%	805	20.0	43.51°C	0.986
	12.199V	5.03V	3.332V	5.045V	753.268				51.55°C	114.64V
90%	55.924A	8.452A	8.408A	2.382A	764.884	89.613%	1003	27.2	44.02°C	0.988
	12.202V	5.028V	3.33V	5.038V	853.537				53.12°C	114.61V
100%	62.274A	8.953A	8.926A	2.988A	849.719	88.927%	1180	32.1	44.99°C	0.989
	12.204V	5.026V	3.327V	5.021V	955.522				55.09°C	114.57V
110%	68.496A	9.953A	10.016A	2.991A	934.278	88.204%	1345	36.1	46.75°C	0.99
	12.205V	5.023V	3.324V	5.016V	1059.229				57.69°C	114.53V
CL1	0.113A	11.962A	11.871A	0.001A	101.282	84.726%	0	<6.0	45.48°C	0.948
	12.248V	5.032V	3.344V	5.119V	119.538				40.03°C	114.83V
CL2	0.113A	19.889A	0A	0.001A	101.365	82.911%	820	20.7	40.35°C	0.946
	12.250V	5.027V	3.352V	5.122V	122.259				47.46°C	114.84V
CL3	0.113A	0A	19.757A	0.001A	67.381	77.539%	818	20.6	37.75°C	0.933
	12.231V	5.046V	3.34V	5.119V	86.898				47.01°C	114.85V
CL4	69.644A	0A	0A	0A	849.555	89.452%	1155	31.4	45.15°C	0.989
	12.199V	5.039V	3.336V	5.09V	949.749				56.09°C	114.57V

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%	5.184A	1.982A	1.97A	0.979A	84.997	87.944%	0	<6.0	44.66°C	0.809
	12.229V	5.044V	3.351V	5.105V	96.648				40.41°C	229.94V
20%	11.368A	2.975A	2.957A	1.177A	169.922	91.692%	0	<6.0	45.29°C	0.897
	12.229V	5.042V	3.348V	5.096V	185.317				40.76°C	229.92V
30%	17.922A	3.472A	3.452A	1.376A	254.925	93.246%	0	<6.0	46.52°C	0.93
	12.212V	5.041V	3.346V	5.088V	273.385				41.47°C	229.91V
40%	24.482A	3.97A	3.949A	1.575A	340.009	93.651%	709	15.9	41.77°C	0.948
	12.205V	5.038V	3.343V	5.079V	363.057				47.31°C	229.89V
50%	30.687A	4.965A	4.941A	1.775A	424.81	93.703%	706	15.7	42.02°C	0.957
	12.198V	5.036V	3.339V	5.07V	453.357				48.04°C	229.88V
60%	36.857A	5.96A	5.934A	1.976A	509.329	93.565%	701	15.5	42.7°C	0.963
	12.197V	5.034V	3.337V	5.061V	544.361				49.25°C	229.87V
70%	43.083A	6.957A	6.928A	2.177A	594.642	93.296%	745	17.7	43.14°C	0.968
	12.198V	5.032V	3.334V	5.052V	637.365				50.24°C	229.86V
80%	49.306A	7.954A	7.922A	2.279A	679.474	92.973%	807	20.1	43.89°C	0.972
	12.201V	5.03V	3.332V	5.046V	730.834				52.01°C	229.84V
90%	55.920A	8.452A	8.408A	2.381A	764.881	92.642%	1013	27.4	44.09°C	0.974
	12.203V	5.028V	3.33V	5.039V	825.634				53.14°C	229.83V
100%	62.276A	8.953A	8.926A	2.987A	849.723	92.231%	1184	32.2	45.28°C	0.977
	12.204V	5.026V	3.327V	5.021V	921.301				55.33°C	229.82V
110%	68.496A	9.952A	10.024A	2.99A	934.308	91.783%	1419	37.3	46.67°C	0.978
	12.205V	5.024V	3.322V	5.016V	1017.952				57.59°C	229.8V
CL1	0.113A	11.961A	11.871A	0.001A	101.281	86.043%	0	<6.0	45.56°C	0.842
	12.243V	5.032V	3.344V	5.119V	117.708				40.04°C	229.94V
CL2	0.113A	19.887A	0A	0.001A	101.364	84.223%	821	20.7	40.26°C	0.845
	12.247V	5.027V	3.352V	5.122V	120.354				47.39°C	229.93V
CL3	0.113A	0A	19.75A	0.001A	67.38	78.64%	815	20.5	40.47°C	0.788
	12.232V	5.046V	3.342V	5.119V	85.686				49.55°C	229.94V

Test	12V	5V	3.3V	5VSB	DC/AC (Watts)	Efficiency	Fan Speed (RPM)	PSU Noise (dB[A])	Temps (In/Out)	PF/AC Volts
CL4	69.664A	0A	0A	0A	849.463	92.849%	1059	28.8	45.37°C	0.976
	12.194V	5.039V	3.336V	5.09V	914.893				56.31°C	229.81V

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	1.226A	0.495A	0.492A	0.195A	19.989	77.517%	0	<6.0	39.75°C	0.822
	12.100V	5.048V	3.351V	5.123V	25.786				36.7°C	114.87V
40W	2.700A	0.693A	0.689A	0.293A	39.99	83.851%	0	<6.0	40.28°C	0.893
	12.108V	5.047V	3.35V	5.12V	47.693				37.03°C	114.87V
60W	4.140A	0.892A	0.886A	0.391A	59.99	83.951%	0	<6.0	42.01°C	0.918
	12.202V	5.046V	3.35V	5.117V	71.456				38.17°C	114.86V
80W	5.596A	1.09A	1.083A	0.489A	79.924	86.509%	0	<6.0	42.98°C	0.931
	12.204V	5.046V	3.35V	5.115V	92.387				39°C	114.85V

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	1.224A	0.495A	0.492A	0.195A	19.996	78.531%	0	<6.0	39.82°C	0.475
	12.132V	5.049V	3.354V	5.124V	25.46				36.75°C	229.95V
40W	2.692A	0.693A	0.689A	0.293A	39.994	84.838%	0	<6.0	40.3°C	0.652
	12.137V	5.047V	3.353V	5.122V	47.146				37°C	229.95V
60W	4.132A	0.892A	0.886A	0.391A	59.994	85.274%	0	<6.0	41.65°C	0.748
	12.228V	5.047V	3.352V	5.119V	70.359				38.13°C	229.94V
80W	5.586A	1.09A	1.083A	0.489A	79.929	87.884%	0	<6.0	43.08°C	0.799
	12.228V	5.046V	3.352V	5.116V	90.949				39.22°C	229.94V

The results above are not used in the certification process

Ripple Measurements

115V

Test	12V	5V	3.3V	5VSB	Pass/Fail
10% Load	11.70mV	14.68mV	13.71mV	18.89mV	Pass
20% Load	11.76mV	13.91mV	14.01mV	15.95mV	Pass
30% Load	31.10mV	12.78mV	14.07mV	13.06mV	Pass
40% Load	21.31mV	15.30mV	14.01mV	26.84mV	Pass
50% Load	19.76mV	15.40mV	14.89mV	27.56mV	Pass
60% Load	19.35mV	15.92mV	15.36mV	26.84mV	Pass
70% Load	20.02mV	15.76mV	16.19mV	26.17mV	Pass
80% Load	19.97mV	16.59mV	16.19mV	26.94mV	Pass
90% Load	19.76mV	17.47mV	16.08mV	27.72mV	Pass
100% Load	29.38mV	19.60mV	19.39mV	29.47mV	Pass
110% Load	29.36mV	19.85mV	22.16mV	30.77mV	Pass
Crossload1	11.97mV	16.16mV	16.56mV	21.13mV	Pass
Crossload2	12.42mV	18.80mV	14.69mV	33.29mV	Pass
Crossload3	11.81mV	16.85mV	16.39mV	32.57mV	Pass
Crossload4	28.83mV	18.74mV	17.90mV	29.84mV	Pass

The results above are not used in the certification process

230V

Test	12V	5V	3.3V	5VSB	Pass/Fail
10% Load	11.91mV	14.58mV	14.48mV	18.68mV	Pass
20% Load	11.45mV	13.45mV	14.32mV	16.05mV	Pass
30% Load	34.15mV	13.60mV	13.71mV	13.21mV	Pass
40% Load	23.06mV	15.41mV	15.77mV	27.10mV	Pass
50% Load	20.80mV	15.61mV	15.31mV	27.30mV	Pass
60% Load	21.10mV	15.45mV	15.62mV	27.41mV	Pass

Test	12V	5V	3.3V	5VSB	Pass/Fail
70% Load	21.77mV	15.77mV	15.10mV	27.72mV	Pass
80% Load	21.82mV	17.05mV	15.98mV	27.15mV	Pass
90% Load	21.10mV	18.13mV	17.11mV	29.16mV	Pass
100% Load	32.16mV	19.87mV	21.55mV	30.64mV	Pass
110% Load	31.74mV	21.71mV	22.45mV	31.11mV	Pass
Crossload1	12.03mV	15.99mV	17.21mV	21.61mV	Pass
Crossload2	11.91mV	20.51mV	15.20mV	34.84mV	Pass
Crossload3	12.32mV	17.67mV	17.27mV	33.86mV	Pass
Crossload4	31.45mV	20.06mV	19.77mV	31.33mV	Pass

The results above are not used in the certification process

Montech Titan PLA 850W



Top side

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 LTD Syrou 6, Latsia, 2231, Nicosia Cyprus



HI-POT

OK

Grounding

OK

80

PLUS

PLATINUM

TITAN PLA 850W

Switching Power Supply/スイッチモード電源/電源供應器/电源供应器

Model/モデル/型號/型号:TIX0124

AC INPUT 交流輸入/交流輸入	100-240 Vac 11-5.5A 50-60Hz 不适用于中国地区 仅200-240 V ~ 5.5A 50-60Hz 适用于中国地区				
DC OUTPUT 直流輸出/直流輸出	+3.3 V	+5 V	+12 V	-12 V	+5 V _{SB}
	20 A	20 A	70 A	0.3 A	3 A
	100 W		840 W	3.6 W	15 W
	850 W				

Power specifications label

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

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