Sharkoon Rebel P20 Gen2 850 (Black/White)

Serial Number -

Lab ID SK85003140

Certification ID 263140

Test Result Report ID: 26PS3140A

Certificate Issue Date: Jan 26, 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	Sharkoon
Model	Rebel P20 Gen2 850 (Black/White)
OEM/ODM	Andyson
Serial Number	-
Product Specifications	
Manufacturer-Provided Information	
Rated Voltage (Vrms)	100-240
Rated Current (Arms)	5-10

Rated Frequency (Hz)	50-60
Rated Power (W)	850
Operating Temperature (Continuous Full Load) (°C)	0 - 50
Type	ATX12V
Cable Design	Fully Modular
Warranty	No Info
Cybenetics Measurements	
Dimensions (W x H x D)	150 x 85 x 140mm
Weight	1.36 kg (3.00 lb)
Cooling	120mm Sleeve Bearing Fan (PY-1225M12S)
Semi-Passive Operation	✓ (selectable)
Cybenetics Testing Information	
Lab ID	SK85003140
Date of receipt	Dec 17, 2025
Testing Date	Jan 23, 2026
Report Issued Date	Jan 26, 2026
DUT Notes	The results apply to both the black and white model.
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 (600mm)	1	1	18-22AWG	Tinned Copper
4+4 pin EPS12V (700mm)	2	2	18AWG	Tinned Copper
6+2 pin PCIe (600mm)	3	3	18AWG	Tinned Copper
12+4 pin PCIe (600mm) (600W)	1	1	16-24AWG	Tinned Copper
SATA (500mm+150mm+150mm+150mm)	1	4	18AWG	Tinned Copper
SATA (500mm+150mm+150mm) / 4-pin Molex (+150mm)	1	3 / 1	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	18	18	70.8	3	0.3
	Watts	100		849.6	15	3.6
Total Max. Power (W)		850				

Parts Description

General Data	
Manufacturer (OEM)	Andyson
PCB Type	Double Sided
Primary Side	
Transient Filter	4x Y caps, 2x X caps, 2x CM chokes, 1x MOV
Inrush Protection	NTC Thermistor SCK-056 (5 Ohm @ 25°C) & Relay
Bridge Rectifier(s)	2x GBU1506 (600V, 15A @ 100°C)
APFC MOSFETs	2x Pingwei PWE120N65SFMF (650V, 20A @ 100°C, Rds(on): 0.105 Ohm)
APFC Boost Diode	1x Global Power Technology Co. G4S06508AT (650V, 8A @ 153°C)
Bulk Cap(s)	1x Nichicon (400V, 680uF, 2000h @ 105°C, GL)
Main Switchers	2x Pingwei PWE120N65SFMF (650V, 20A @ 100°C, Rds(on): 0.105 Ohm)
APFC Controller	Champion CM6500UNX & Champion CM03X (reducing no load consumption)
Resonant Controller	Champion CU6901VPA

Topology	Primary side: APFC, Half-Bridge & LLC converter Secondary side: Synchronous Rectification & DC-DC converters
Secondary Side	
+12V MOSFETs	6x Perfect PWC012N04ES (40V, 132A @ 100°C, Rds(on): 1.2 mOhm)
5V & 3.3V	DC-DC Converters: 2x Wayon B150N03S (30V, 95A @ 100°C, Rds(on): 2.3 mOhm) 2x Wayon WMO190N03TS (30V, 120A @ 100°C, Rds(on): 2.6 mOhm) PWM Controller(s): 2x ANPEC APW7164
Filtering Capacitors	Electrolytic: 2x Rubycon (6000-10000 @ 105°C, ZLH), 1x Rubycon (3000-6000 @ 105°C, YXS), 8x Rubycon (4000-10,000 @ 105°C YXJ), Polymer: 19x PolyCap, 2x Teapo (FG)
Supervisor IC	EST.7630FS (OCP, OTP, OVP, UVP, SCP, PG)
Fan Power Transistor	NXP PBSS5350X
Fan Model	POWERYEAR PY-1225M12S (120mm, 12V, 0.26A)
5VSB/12VSB Circuit	
Rectifier	Vishay SS10P60L
Standby PWM Controller	Sanken Electric STR-A6069H

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	✓

Performance Summary

115V

Accredited	
Average Efficiency (>1450 load combinations)	88.502%
Average Noise Output (>1450 Load Combinations)	33.49dBA
Average PF (>1450 Load Combinations)	0.982
Efficiency With 10W (≤500W) or 2% (>500W) Load	63.520%
Standby Power Consumption	0.1117W
Non-Accredited	
12V Ripple (Full Load)	32.84mV
5V Ripple (Full Load)	9.83mV
3.3V Ripple (Full Load)	11.59mV
5VSB Ripple (Full Load)	19.21mV
12V Load Regulation	0.95%
5V Load Regulation	2.41%
3.3V Load Regulation	3.45%
5VSB Load Regulation	5.20%
Inrush Current	29.300A

230V

Accredited	
Average Efficiency (>1450 load combinations)	90.622%
Average Noise Output (>1450 Load Combinations)	33.63dBA
Average PF (>1450 Load Combinations)	0.942
Efficiency With 10W (≤500W) or 2% (>500W) Load	63.992%
Standby Power Consumption	0.1473W
Non-Accredited	
12V Ripple (Full Load)	33.63mV
5V Ripple (Full Load)	10.00mV
3.3V Ripple (Full Load)	12.06mV

5VSB Ripple (Full Load)		18.08mV
12V Load Regulation		0.94%
5V Load Regulation		2.41%
3.3V Load Regulation		3.48%
5VSB Load Regulation		5.14%
Inrush Current		66.580A
12V Transient Response (200%)		11.59V
5V Transient Response (200%)		4.889V
3.3V Transient Response (200%)		3.277V
5VSB Transient Response (200%)		5.021V
Hold-Up Time & PWR_OK Signal		16.20ms
AC Loss to PWR_OK Hold Up Time		14.30ms
PWR_OK Inactive to DC Loss Delay		1.90ms
PSU Timings: T1 (20% / 100%)	58.0ms	55.0ms
PSU Timings: T3 (20% / 100%)	114.0ms	115.0ms
12V OCP (27.3°C / 43.6°C)	89.80A (126.84%), 12.203V	88.00A (124.29%), 12.207V
5V OCP (27.3°C / 43.6°C)	22.6A (125.56%), 5.037V	22.7A (126.11%), 5.035V
3.3V OCP (27.3°C / 43.6°C)	21.9A (121.67%), 3.398V	22.7A (126.11%), 3.39V
5VSB OCP (27.3°C / 43.6°C)	4.8A (160.00%), 4.967V	4.6A (153.33%), 4.964V
OPP (28.60°C / 45.10°C)	138.01%	130.07%

Hold-Up Time & PWR_OK Signal

Hold-Up Time (ms)	16.2
AC Loss to PWR_OK Hold Up Time (ms)	14.3
PWR_OK Inactive to DC Loss Delay (ms)	1.9

Stromverbrauch im Ruhezustand

Tables

115V

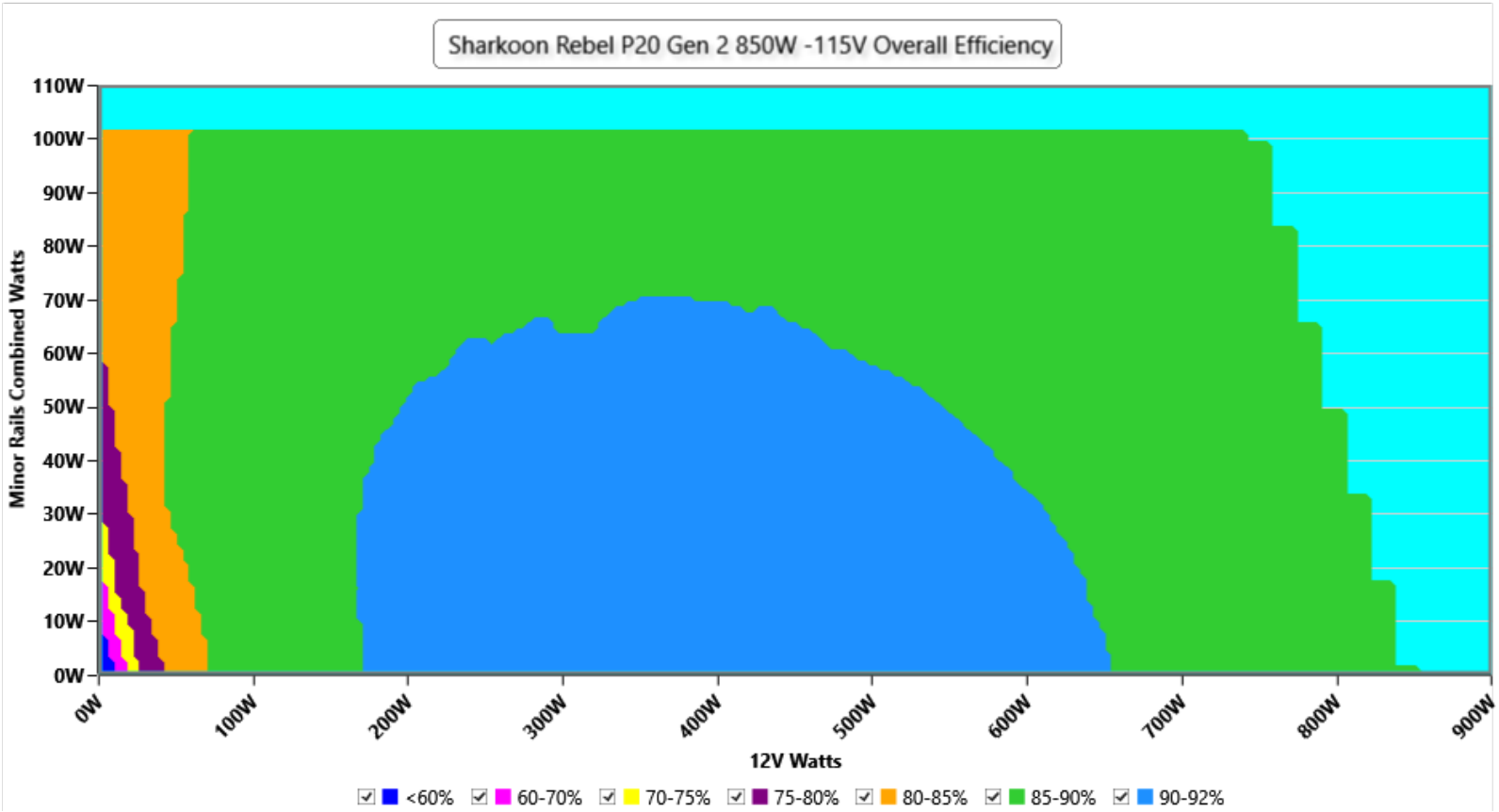
Detailed Results						
	Average	Min	Limit Min	Max	Limit Max	Result
Mains Voltage RMS:	115.06 V	115.04 V	113.85 V	115.08 V	116.15 V	PASS
Mains Frequency:	60.00 Hz	59.99 Hz	59.40 Hz	60.01 Hz	60.60 Hz	PASS
Mains Voltage CF:	1.416	1.415	1.340	1.417	1.490	PASS
Mains Voltage THD:	0.13 %	0.11 %	N/A	0.15 %	2.00 %	PASS
Real Power:	0.112 W	-0.006 W	N/A	0.164 W	N/A	N/A
Apparent Power:	8.203 W	8.175 W	N/A	8.230 W	N/A	N/A
Power Factor:	0.014	N/A	N/A	N/A	N/A	N/A

230V

Detailed Results						
	Average	Min	Limit Min	Max	Limit Max	Result
Mains Voltage RMS:	230.14 V	230.12 V	227.70 V	230.16 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:	0.147 W	0.099 W	N/A	0.204 W	N/A	N/A
Apparent Power:	26.570 W	26.534 W	N/A	26.611 W	N/A	N/A
Power Factor:	0.005	N/A	N/A	N/A	N/A	N/A

Efficiency Graph

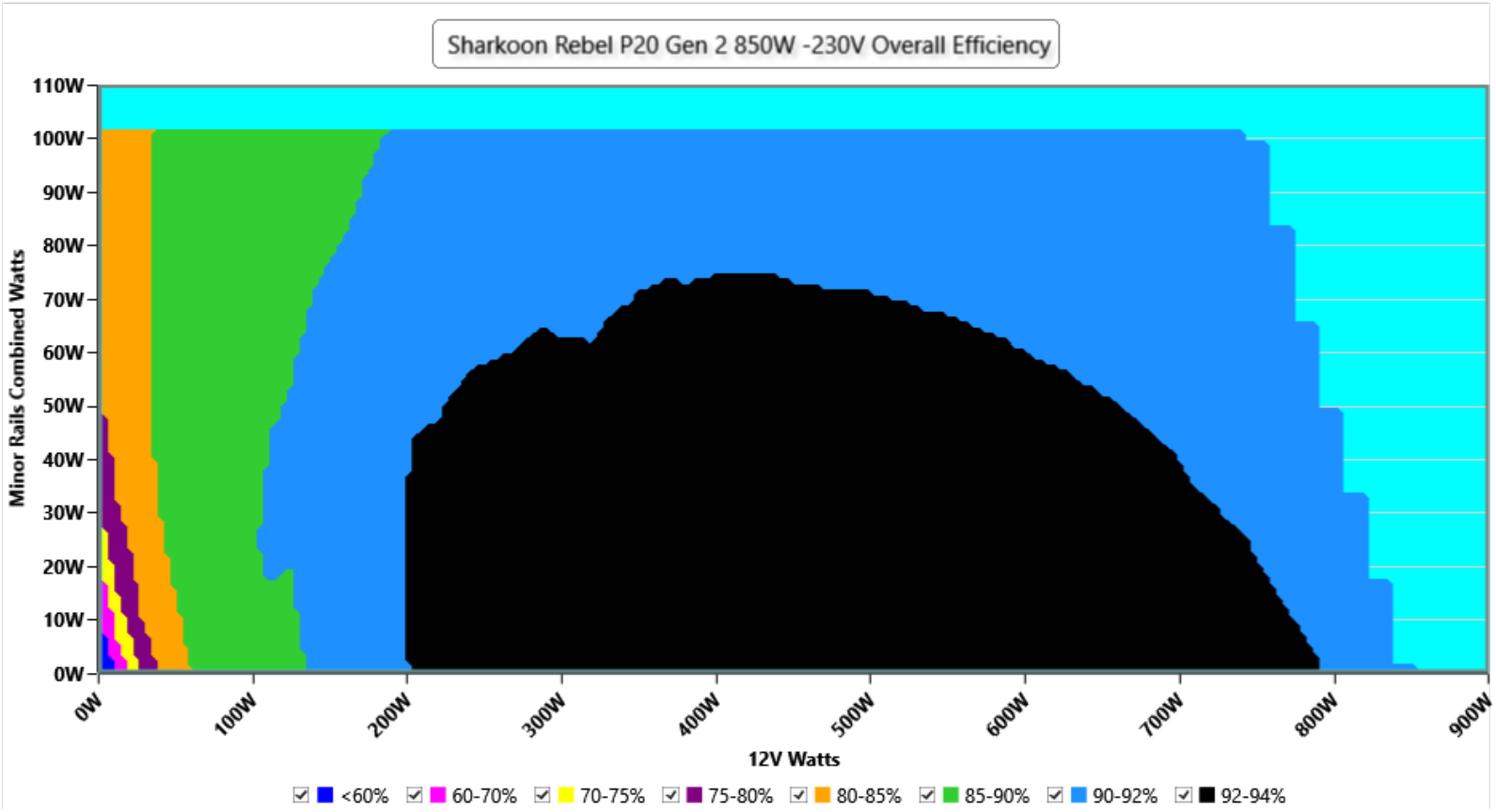
115V



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

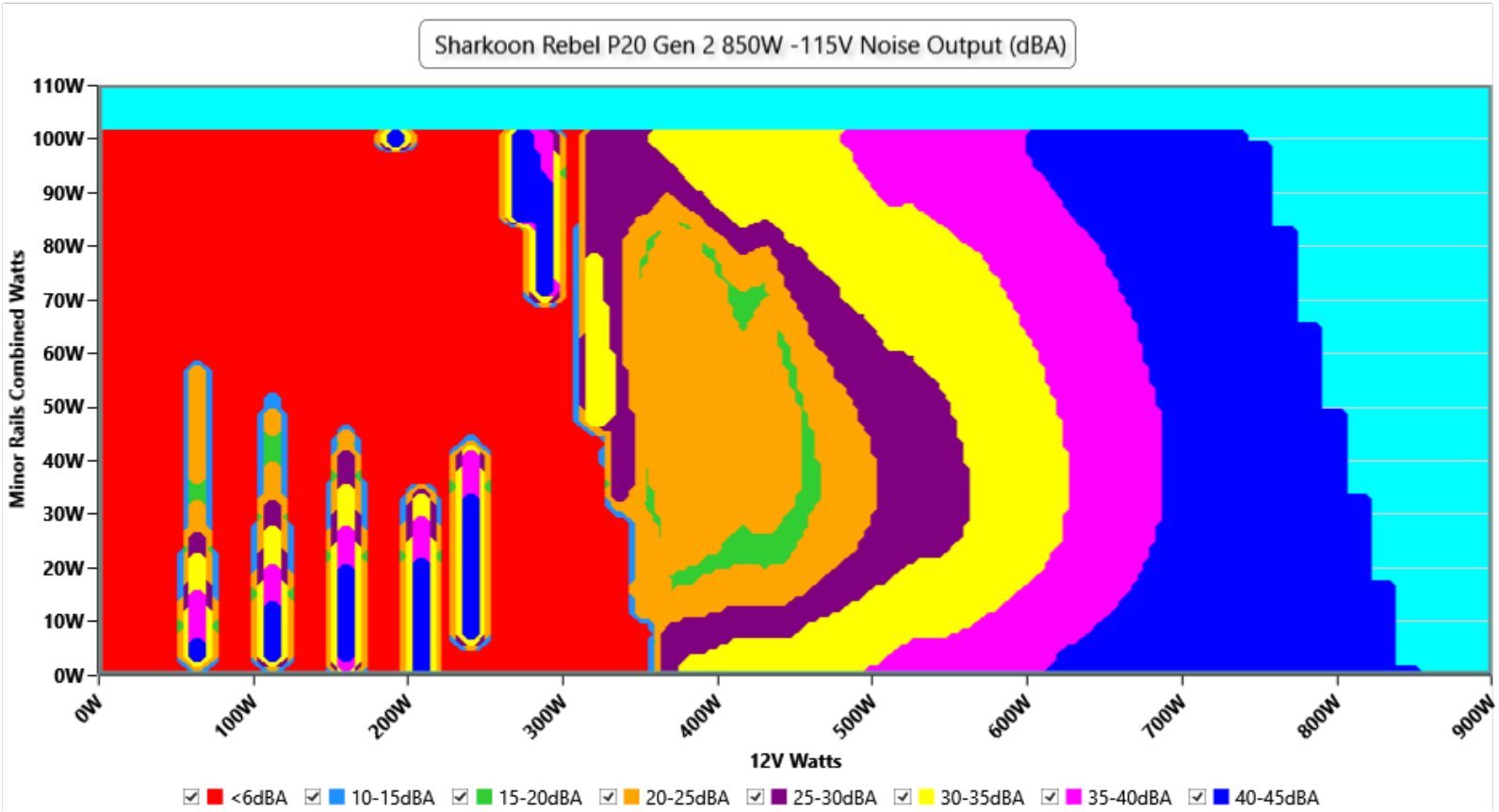


INFO

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

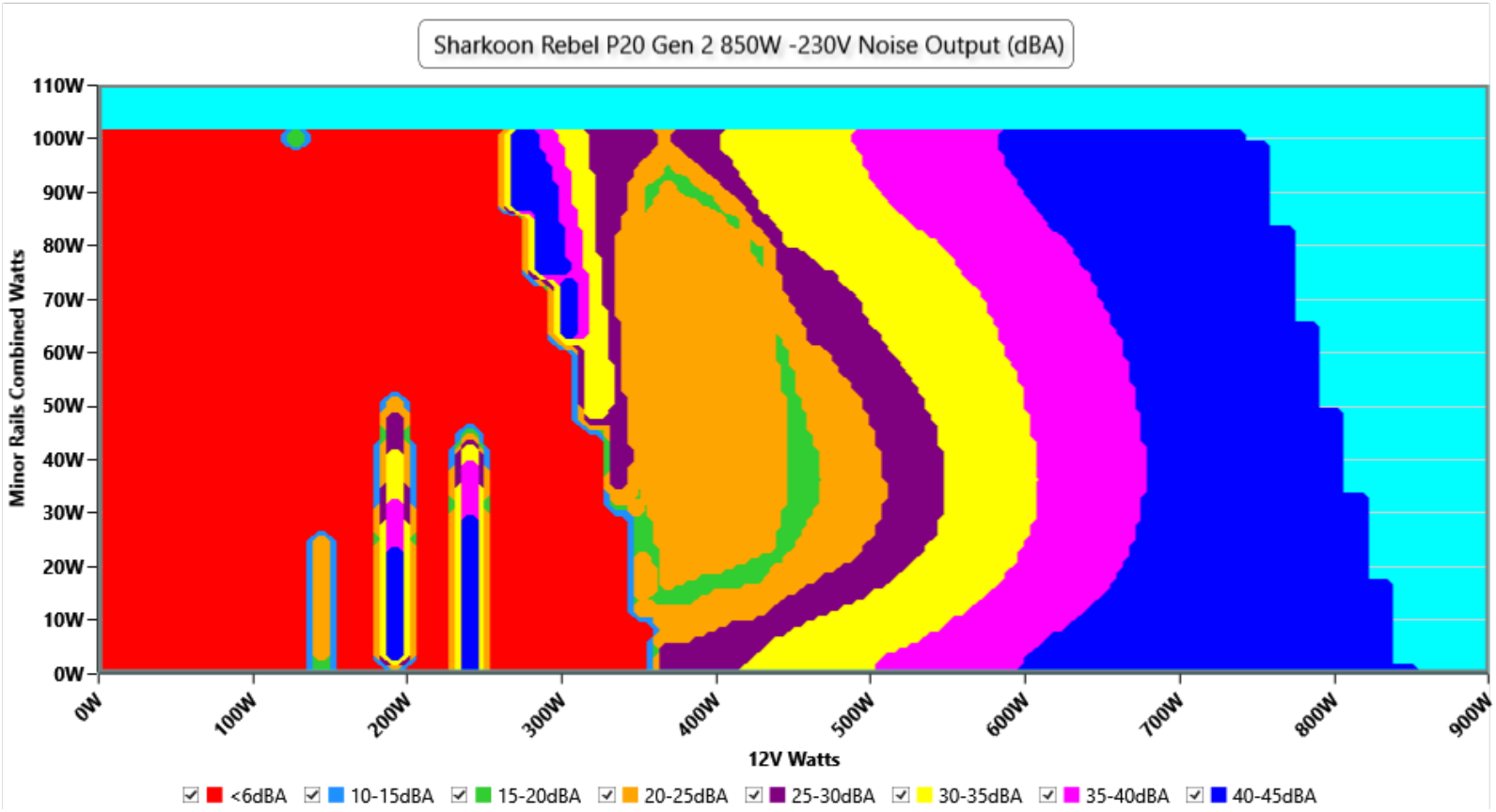
115V



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

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) · 36.7 °C	0 RPM · <6.0 dB(A) · 49.3 °C	fan off in both
20%	0 RPM · <6.0 dB(A) · 42.0 °C	0 RPM · <6.0 dB(A) · 52.5 °C	fan off in both
50%	705 RPM · 18.5 dB(A) · 30.8 °C	1737 RPM · 43.1 dB(A) · 42.5 °C	**+24.6 dB(A)**
100%	1748 RPM · 43.7 dB(A) · 30.8 °C	1748 RPM · 43.7 dB(A) · 46.0 °C	**+0.0 dB(A)**

230V

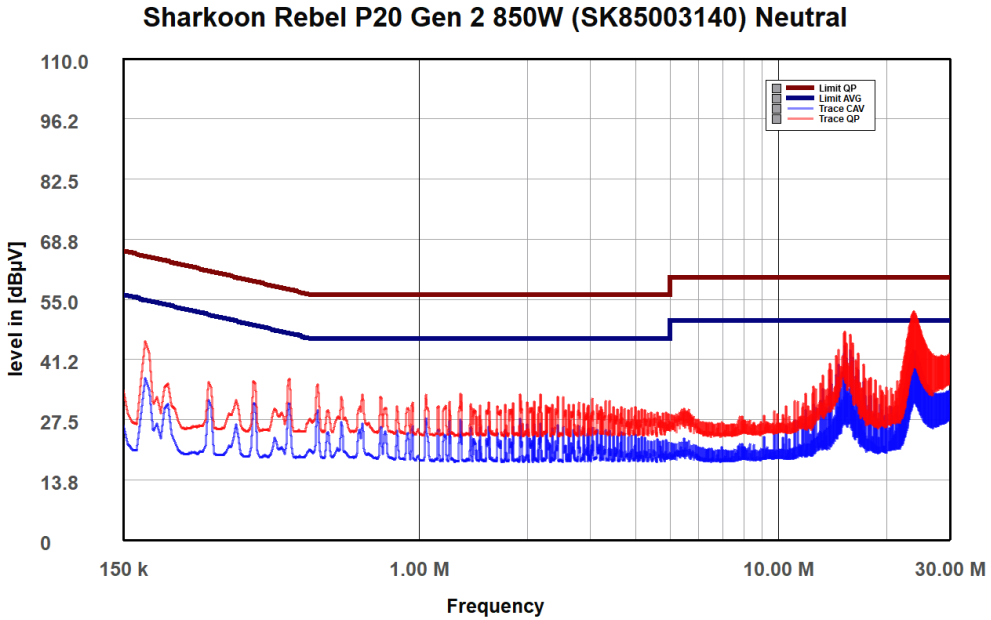
Load	Normal ambient fan · noise · intake	High ambient fan · noise · intake	Noise change
10%	0 RPM · <6.0 dB(A) · 39.2 °C	0 RPM · <6.0 dB(A) · 50.6 °C	fan off in both
20%	0 RPM · <6.0 dB(A) · 41.7 °C	0 RPM · <6.0 dB(A) · 51.4 °C	fan off in both
50%	713 RPM · 18.3 dB(A) · 30.1 °C	1726 RPM · 42.6 dB(A) · 42.1 °C	**+24.3 dB(A)**
100%	1750 RPM · 43.8 dB(A) · 30.8 °C	1750 RPM · 43.8 dB(A) · 45.5 °C	**+0.0 dB(A)**

INFO

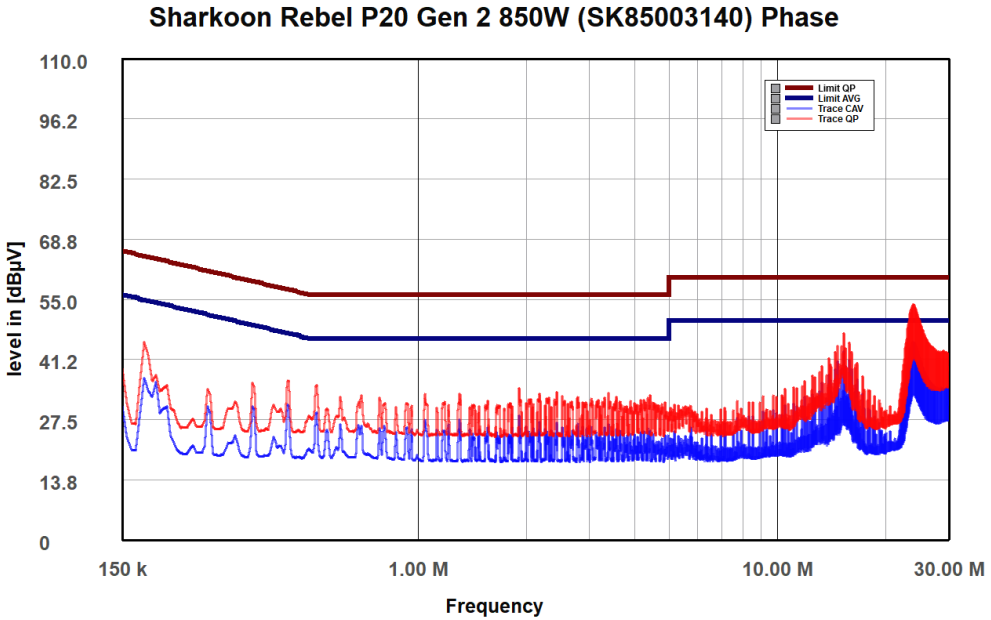
Fan speed, noise and the measured intake temperature at 10, 20, 50 and 100 % load, from the two load regulation tests: at normal ambient (about 30-32 °C) and at high ambient (about 40-47 °C). These are stabilized readings at fixed loads, not averages over the certification sweep, so they are indicative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

Conducted Emissions EN 55032 & CISPR 32



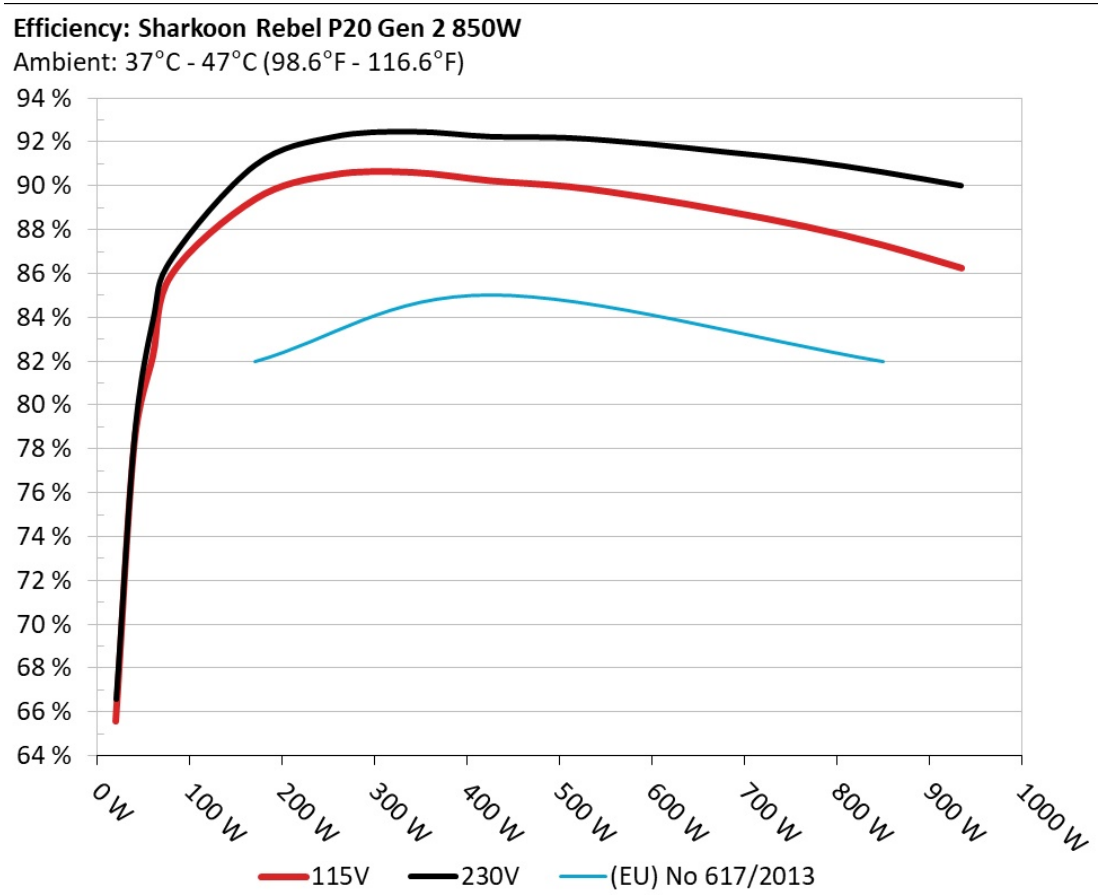
NEUTRAL



PHASE

Indicative Performance

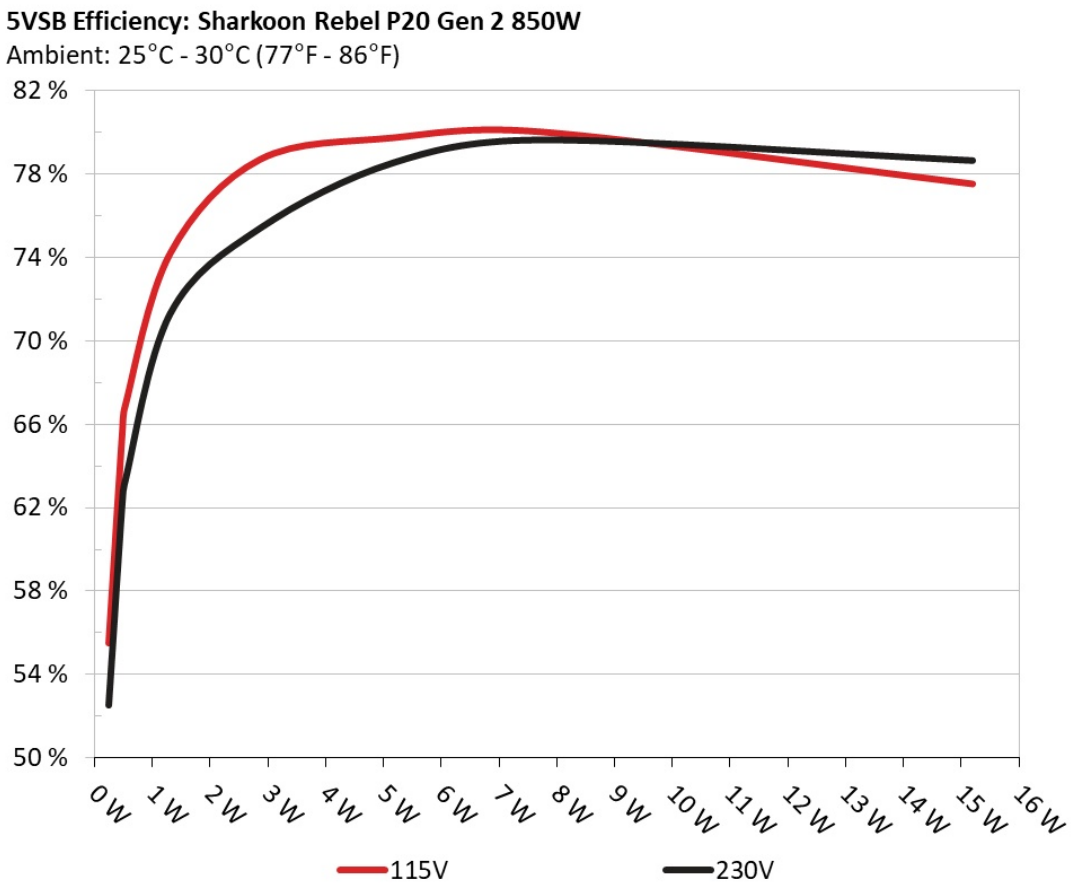
Efficiency under high ambient temperature



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**	0.235W	55.536%	0.053
	5.215V	0.423W		114.97V
2	**0.09A**	0.469W	65.608%	0.089
	5.212V	0.715W		114.96V
3	**0.55A**	2.856W	78.699%	0.312
	5.19V	3.629W		114.94V
4	**1A**	5.17W	79.739%	0.398
	5.168V	6.483W		114.94V
5	**1.501A**	7.718W	80.023%	0.438
	5.144V	9.645W		114.93V
6	**3.001A**	15.207W	77.53%	0.495
	5.068V	19.612W		114.93V

230V

Test #	5VSB	DC/AC (Watts)	Efficiency	PF/AC Volts
1	**0.045A**	0.235W	52.536%	0.017
	5.214V	0.448W		230.09V
2	**0.09A**	0.469W	62.25%	0.029
	5.213V	0.754W		230.08V
3	**0.55A**	2.856W	75.407%	0.134
	5.19V	3.787W		230.08V
4	**1A**	5.17W	78.552%	0.209
	5.168V	6.582W		230.08V
5	**1.5A**	7.718W	79.647%	0.269
	5.144V	9.691W		230.08V
6	**3.001A**	15.207W	78.656%	0.364
	5.068V	19.334W		230.08V

Protection Features

OCP (Normal @ 27.3°C)	12V: 89.80A (126.84%), 12.203V 5V: 22.6A (125.56%), 5.037V 3.3V: 21.9A (121.67%), 3.398V 5VSB: 4.8A (160.00%), 4.967V
OCP (Hot @ 43.6°C)	12V: 88.00A (124.29%), 12.207V 5V: 22.7A (126.11%), 5.035V 3.3V: 22.7A (126.11%), 3.39V 5VSB: 4.6A (153.33%), 4.964V
OPP (Normal @ 28.6°C)	1173.07W (138.01%)
OPP (Hot @ 45.1°C)	1105.62W (130.07%)
OTP	✓ (79°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 (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%	**5.150A**	**1.967A**	**1.918A**	**0.971A**	85.008	85.803%	0	<6.0	49.29°C	0.987
	12.312V	5.085V	3.442V	5.152V	99.076				40.19°C	114.96V
20%	**11.303A**	**2.957A**	**2.886A**	**1.17A**	169.964	89.361%	0	<6.0	52.52°C	0.962
	12.303V	5.075V	3.431V	5.13V	190.201				40.66°C	114.94V
30%	**17.807A**	**3.456A**	**3.377A**	**1.37A**	254.977	90.487%	0	<6.0	57.41°C	0.974
	12.294V	5.065V	3.421V	5.11V	281.782				41.4°C	114.92V
40%	**24.329A**	**3.958A**	**3.871A**	**1.573A**	340.071	90.598%	1756	44.2	41.68°C	0.982
	12.284V	5.054V	3.411V	5.088V	375.362				58.28°C	114.9V
50%	**30.528A**	**4.969A**	**4.86A**	**1.776A**	425.143	90.214%	1737	43.1	42.47°C	0.986
	12.272V	5.033V	3.395V	5.068V	471.262				51.73°C	114.87V
60%	**36.696A**	**5.977A**	**5.854A**	**1.982A**	509.653	89.944%	1744	43.4	42.87°C	0.988
	12.258V	5.021V	3.383V	5.048V	566.634				53.23°C	114.86V
70%	**42.946A**	**6.99A**	**6.853A**	**2.189A**	595.003	89.445%	1745	43.5	43°C	0.99
	12.245V	5.009V	3.371V	5.025V	665.217				54.54°C	114.84V
80%	**49.210A**	**8.006A**	**7.86A**	**2.297A**	679.837	88.829%	1746	43.6	43.75°C	0.991
	12.232V	4.997V	3.359V	5.008V	765.332				56.87°C	114.82V
90%	**55.880A**	**8.525A**	**8.364A**	**2.405A**	765.281	88.132%	1747	43.6	44.95°C	0.992
	12.218V	4.986V	3.348V	4.99V	868.339				59.42°C	114.79V
100%	**62.304A**	**9.048A**	**8.904A**	**3.035A**	850.117	87.273%	1748	43.7	45.95°C	0.993
	12.204V	4.974V	3.336V	4.944V	974.09				62.22°C	114.77V
110%	**68.615A**	**10.078A**	**10.023A**	**3.044A**	934.697	86.233%	1748	43.7	47.46°C	0.994
	12.190V	4.962V	3.322V	4.929V	1083.924				66.72°C	114.74V
CL1	**0.114A**	**11.931A**	**11.635A**	**0A**	101.319	79.173%	1725	42.6	40.77°C	0.97
	12.296V	5.046V	3.412V	5.177V	127.969				51.05°C	114.95V

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**	**17.823A**	**0A**	**0A**	91.406	78.874%	1312	35.1	41.14°C	0.976
	12.285V	5.05V	3.429V	5.188V	115.89				48.56°C	114.95V
CL3	**0.114A**	**0A**	**17.421A**	**0A**	60.801	70.18%	1586	40.3	40.15°C	0.975
	12.299V	5.067V	3.409V	5.188V	86.638				47.7°C	114.97V
CL4	**69.531A**	**0A**	**0A**	**0A**	849.785	88.513%	1757	44.2	45.45°C	0.993
	12.222V	5.005V	3.362V	5.124V	960.073				58.19°C	114.76V

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%	**5.150A**	**1.967A**	**1.917A**	**0.971A**	85.006	86.55%	0	<6.0	50.61°C	0.859
	12.312V	5.086V	3.442V	5.151V	98.215				40.19°C	230.09V
20%	**11.302A**	**2.956A**	**2.885A**	**1.17A**	169.96	90.925%	0	<6.0	51.44°C	0.923
	12.303V	5.075V	3.431V	5.13V	186.924				40.57°C	230.08V
30%	**17.805A**	**3.455A**	**3.376A**	**1.37A**	254.972	92.226%	0	<6.0	54.14°C	0.942
	12.295V	5.065V	3.421V	5.11V	276.466				41.47°C	230.08V
40%	**24.327A**	**3.961A**	**3.871A**	**1.572A**	340.065	92.466%	0	<6.0	47.46°C	0.95
	12.285V	5.051V	3.41V	5.09V	367.776				41.86°C	230.08V
50%	**30.525A**	**4.968A**	**4.859A**	**1.776A**	425.115	92.24%	1726	42.6	42.07°C	0.957
	12.272V	5.034V	3.396V	5.07V	460.88				49.93°C	230.07V
60%	**36.692A**	**5.975A**	**5.852A**	**1.981A**	509.618	92.184%	1743	43.4	42.78°C	0.961
	12.259V	5.022V	3.383V	5.049V	552.827				51.48°C	230.06V
70%	**42.941A**	**6.988A**	**6.852A**	**2.188A**	594.968	91.91%	1746	43.6	43.19°C	0.963
	12.246V	5.01V	3.372V	5.027V	647.341				52.23°C	230.05V
80%	**49.204A**	**8.004A**	**7.859A**	**2.296A**	679.8	91.539%	1748	43.7	43.57°C	0.966
	12.233V	4.998V	3.359V	5.01V	742.63				53.55°C	230.04V
90%	**55.871A**	**8.523A**	**8.363A**	**2.404A**	765.25	91.148%	1751	43.9	44.88°C	0.969
	12.220V	4.987V	3.348V	4.993V	839.568				56.71°C	230.03V

Test	12V	5V	3.3V	5VSB	DC/AC (Watts)	Efficiency	Fan Speed (RPM)	PSU Noise (dB[A])	Temps (In/Out)	PF/AC Volts
100%	**62.293A**	**9.044A**	**8.903A**	**3.033A**	850.083	90.621%	1750	43.8	45.53°C	0.972
	12.206V	4.976V	3.336V	4.946V	938.067				59.39°C	230.01V
110%	**68.598A**	**10.075A**	**10.02A**	**3.042A**	934.656	90.004%	1751	43.9	47.26°C	0.975
	12.193V	4.963V	3.323V	4.932V	1038.456				63.61°C	230V
CL1	**0.114A**	**11.93A**	**11.634A**	**0A**	101.314	80.495%	1726	42.6	41.47°C	0.895
	12.297V	5.046V	3.412V	5.178V	125.862				50.28°C	230.09V
CL2	**0.114A**	**17.822A**	**0A**	**0A**	91.407	79.995%	1276	34.1	40.82°C	0.884
	12.303V	5.05V	3.43V	5.188V	114.266				47.48°C	230.09V
CL3	**0.114A**	**0A**	**17.42A**	**0A**	60.799	71.075%	1616	41.3	41.25°C	0.833
	12.301V	5.068V	3.41V	5.188V	85.542				47.86°C	230.09V
CL4	**69.520A**	**0A**	**0A**	**0A**	849.746	91.701%	1756	44.2	45.4°C	0.971
	12.223V	5.006V	3.362V	5.126V	926.649				56.39°C	230.02V

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	**1.206A**	**0.491A**	**0.478A**	**0.192A**	20.007	65.578%	0	<6.0	40.87°C	0.898
	12.320V	5.094V	3.451V	5.201V	30.512				36.75°C	114.98V
40W	**2.654A**	**0.687A**	**0.67A**	**0.289A**	40.006	78.254%	0	<6.0	43°C	0.955
	12.317V	5.093V	3.449V	5.193V	51.122				37.47°C	114.98V
60W	**4.104A**	**0.884A**	**0.862A**	**0.386A**	60.004	82.2%	0	<6.0	45.47°C	0.965
	12.315V	5.091V	3.447V	5.186V	72.997				38.77°C	114.97V
80W	**5.549A**	**1.081A**	**1.054A**	**0.483A**	79.962	85.91%	0	<6.0	47.75°C	0.983
	12.314V	5.089V	3.444V	5.179V	93.078				39.39°C	114.96V

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	**1.206A**	**0.491A**	**0.478A**	**0.192A**	20.007	66.565%	0	<6.0	44.44°C	0.569
	12.321V	5.096V	3.452V	5.2V	30.057				36.86°C	230.11V
40W	**2.654A**	**0.687A**	**0.67A**	**0.289A**	40.005	78.649%	0	<6.0	45.92°C	0.714
	12.318V	5.094V	3.449V	5.193V	50.864				37.16°C	230.1V
60W	**4.103A**	**0.884A**	**0.861A**	**0.386A**	60.004	83.919%	0	<6.0	47.12°C	0.797
	12.317V	5.091V	3.447V	5.185V	71.502				38.13°C	230.1V
80W	**5.548A**	**1.081A**	**1.054A**	**0.483A**	79.96	86.663%	0	<6.0	48.05°C	0.847
	12.314V	5.089V	3.445V	5.178V	92.265				39.42°C	230.09V

The results above are not used in the certification process

Ripple Measurements

115V

Test	12V	5V	3.3V	5VSB	Pass/Fail
10% Load	12.01mV	8.52mV	8.14mV	10.34mV	Pass
20% Load	15.32mV	8.37mV	8.75mV	10.44mV	Pass
30% Load	22.29mV	8.21mV	8.29mV	10.50mV	Pass
40% Load	42.69mV	8.42mV	8.09mV	11.21mV	Pass
50% Load	38.26mV	8.47mV	8.49mV	12.18mV	Pass
60% Load	19.64mV	8.67mV	8.95mV	12.07mV	Pass
70% Load	25.24mV	9.59mV	9.56mV	14.32mV	Pass
80% Load	24.63mV	10.00mV	11.85mV	16.20mV	Pass
90% Load	28.24mV	12.96mV	11.65mV	18.39mV	Pass
100% Load	32.84mV	9.83mV	11.59mV	19.21mV	Pass
110% Load	37.09mV	10.96mV	12.10mV	21.82mV	Pass
Crossload1	13.07mV	10.96mV	12.76mV	17.93mV	Pass
Crossload2	13.38mV	8.77mV	8.65mV	17.98mV	Pass

Test	12V	5V	3.3V	5VSB	Pass/Fail
Crossload3	15.67mV	10.15mV	11.19mV	16.91mV	Pass
Crossload4	32.35mV	8.34mV	6.14mV	20.55mV	Pass

The results above are not used in the certification process

230V

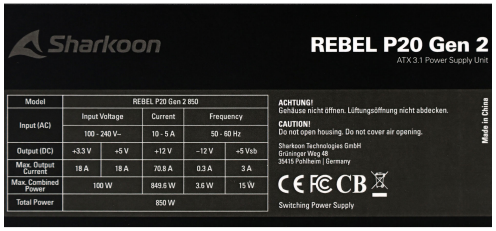
Test	12V	5V	3.3V	5VSB	Pass/Fail
10% Load	12.77mV	8.11mV	6.92mV	9.17mV	Pass
20% Load	15.52mV	8.31mV	7.12mV	9.48mV	Pass
30% Load	18.01mV	8.06mV	7.43mV	9.83mV	Pass
40% Load	19.95mV	8.57mV	8.09mV	10.24mV	Pass
50% Load	20.66mV	8.67mV	8.14mV	11.31mV	Pass
60% Load	20.91mV	9.13mV	8.39mV	11.72mV	Pass
70% Load	23.81mV	9.18mV	8.60mV	13.04mV	Pass
80% Load	26.15mV	11.43mV	11.19mV	15.33mV	Pass
90% Load	30.48mV	15.56mV	11.70mV	16.46mV	Pass
100% Load	33.63mV	10.00mV	12.06mV	18.08mV	Pass
110% Load	39.46mV	10.83mV	12.07mV	19.22mV	Pass
Crossload1	13.73mV	10.31mV	13.15mV	17.48mV	Pass
Crossload2	12.67mV	8.41mV	7.88mV	17.17mV	Pass
Crossload3	12.62mV	10.15mV	10.48mV	17.02mV	Pass
Crossload4	33.91mV	8.09mV	6.17mV	19.80mV	Pass

The results above are not used in the certification process

Sharkoon Rebel P20 Gen2 850 (Black/White)



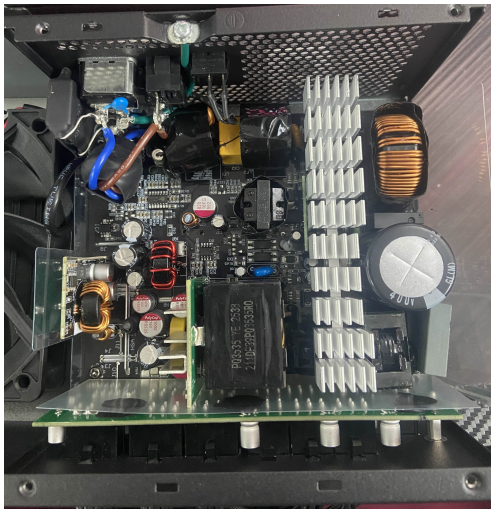
Top side



Power specifications label



Fan



PSU Internals

Cybenetics bietet freiwillige Zertifizierungsprogramme für Netzteile – ETA für Effizienz, LAMBDA für Lautstärke und SAFE für Sicherheit und korrekten Betrieb – sowie für Kühlprodukte mit DELTA für die Schalldämmung von Gehäusen und PHI für Luftstrom und statischen Druck von Lüftern

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