Sharkoon Rebel P20 Gen2 750

Serial Number -

Lab ID SK75003156

Certification ID 263156

Test Result Report ID: 26PS3156A

Certificate Issue Date: Jan 27, 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 750
OEM/ODM	Andyson
Serial Number	-
Product Specifications	
Manufacturer-Provided Information	
Rated Voltage (Vrms)	100-240
Rated Current (Arms)	4.5-9

Rated Frequency (Hz)	50-60
Rated Power (W)	750
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	1.26 kg (2.78 lb)
Cooling	120mm Sleeve Bearing Fan (PY-1225M12S)
Semi-Passive Operation	✓ (selectable)
Cybenetics Testing Information	
Lab ID	SK75003156
Date of receipt	Dec 17, 2025
Testing Date	Jan 27, 2026
Report Issued Date	Jan 27, 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 (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(Manufacturer)

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	62.5	3	0.3
	Watts	100		750	15	3.6
Total Max. Power (W)		750				

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 GBU1006 (600V, 10A @ 80°C)
APFC MOSFETs	2x PingWei PWE180N65SFMF (650V, 13A @ 100°C, Rds(on): 0.18 Ohm)
APFC Boost Diode	1x Global Power Technology Co. G4S06508AT (650V, 8A @ 153°C)
Bulk Cap(s)	1x Nippon Chemi-Con (400V, 470uF, 2000h @ 105°C, KMW)
Main Switchers	2x Onsemi SI24N50F (500V, 14A @ 100°C, Rds(on): 0.20 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	4x 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), 12x 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	✓
Conducted Emissions EN 55032 & CISPR 32	Passed

Performance Summary

115V

Accredited	
Average Efficiency (>1450 load combinations)	88.027%
Average Noise Output (>1450 Load Combinations)	33.48dBA
Average PF (>1450 Load Combinations)	0.982
Efficiency With 10W (≤500W) or 2% (>500W) Load	62.371%
Standby Power Consumption	0.1259W
Non-Accredited	
12V Ripple (Full Load)	46.30mV
5V Ripple (Full Load)	18.27mV
3.3V Ripple (Full Load)	14.97mV
5VSB Ripple (Full Load)	23.86mV
12V Load Regulation	1.23%
5V Load Regulation	2.66%
3.3V Load Regulation	3.55%
5VSB Load Regulation	5.18%
Inrush Current	29.300A

230V

Accredited	
Average Efficiency (>1450 load combinations)	90.139%
Average Noise Output (>1450 Load Combinations)	34.01dBA
Average PF (>1450 Load Combinations)	0.943
Efficiency With 10W (≤500W) or 2% (>500W) Load	62.804%
Standby Power Consumption	0.1472W
Non-Accredited	
12V Ripple (Full Load)	50.06mV
5V Ripple (Full Load)	18.70mV
3.3V Ripple (Full Load)	14.47mV

5VSB Ripple (Full Load)		23.55mV
12V Load Regulation		1.25%
5V Load Regulation		2.62%
3.3V Load Regulation		3.56%
5VSB Load Regulation		5.20%
Inrush Current		66.580A
12V Transient Response (200%)		11.62V
5V Transient Response (200%)		4.790V
3.3V Transient Response (200%)		3.273V
5VSB Transient Response (200%)		5.034V
Hold-Up Time & PWR_OK Signal		13.20ms
AC Loss to PWR_OK Hold Up Time		11.50ms
PWR_OK Inactive to DC Loss Delay		1.70ms
PSU Timings: T1 (20% / 100%)	60.0ms	55.0ms
PSU Timings: T3 (20% / 100%)	113.0ms	113.0ms
12V OCP (28.0°C / 43.3°C)	76.80A (122.88%), 12.135V	75.00A (120.00%), 12.143V
5V OCP (28.0°C / 43.3°C)	23.1A (128.33%), 4.917V	23.1A (128.33%), 4.917V
3.3V OCP (28.0°C / 43.3°C)	22.8A (126.67%), 3.39V	23.3A (129.44%), 3.386V
5VSB OCP (28.0°C / 43.3°C)	4.9A (163.33%), 4.97V	4.7A (156.67%), 4.967V
OPP (28.83°C / 42.91°C)	135.40%	123.01%

Hold-Up Time & PWR_OK Signal

Hold-Up Time (ms)	13.2
AC Loss to PWR_OK Hold Up Time (ms)	11.5
PWR_OK Inactive to DC Loss Delay (ms)	1.7

Tables

115V

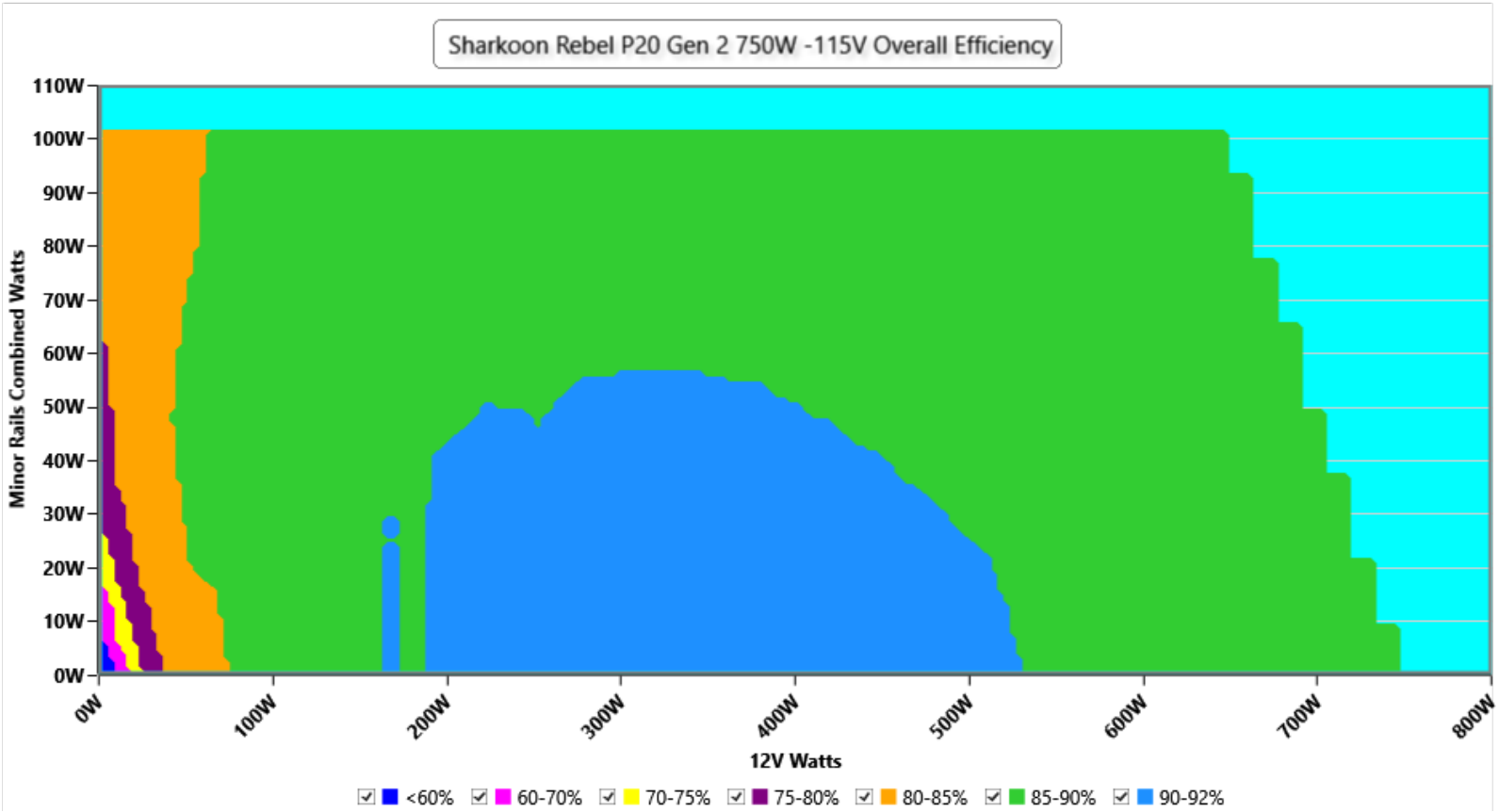
Detailed Results						
	Average	Min	Limit Min	Max	Limit Max	Result
Mains Voltage RMS:	115.06 V	115.03 V	113.85 V	115.08 V	116.15 V	PASS
Mains Frequency:	60.00 Hz	59.99 Hz	59.40 Hz	60.01 Hz	60.60 Hz	PASS
Mains Voltage CF:	1.416	1.415	1.340	1.416	1.490	PASS
Mains Voltage THD:	0.13 %	0.11 %	N/A	0.15 %	2.00 %	PASS
Real Power:	0.126 W	0.099 W	N/A	0.158 W	N/A	N/A
Apparent Power:	7.952 W	7.932 W	N/A	7.973 W	N/A	N/A
Power Factor:	0.016	N/A	N/A	N/A	N/A	N/A

230V

Detailed Results						
	Average	Min	Limit Min	Max	Limit Max	Result
Mains Voltage RMS:	230.13 V	230.11 V	227.70 V	230.15 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	0.102 W	N/A	0.195 W	N/A	N/A
Apparent Power:	25.678 W	25.646 W	N/A	25.709 W	N/A	N/A
Power Factor:	0.005	N/A	N/A	N/A	N/A	N/A

Efficiency Graph

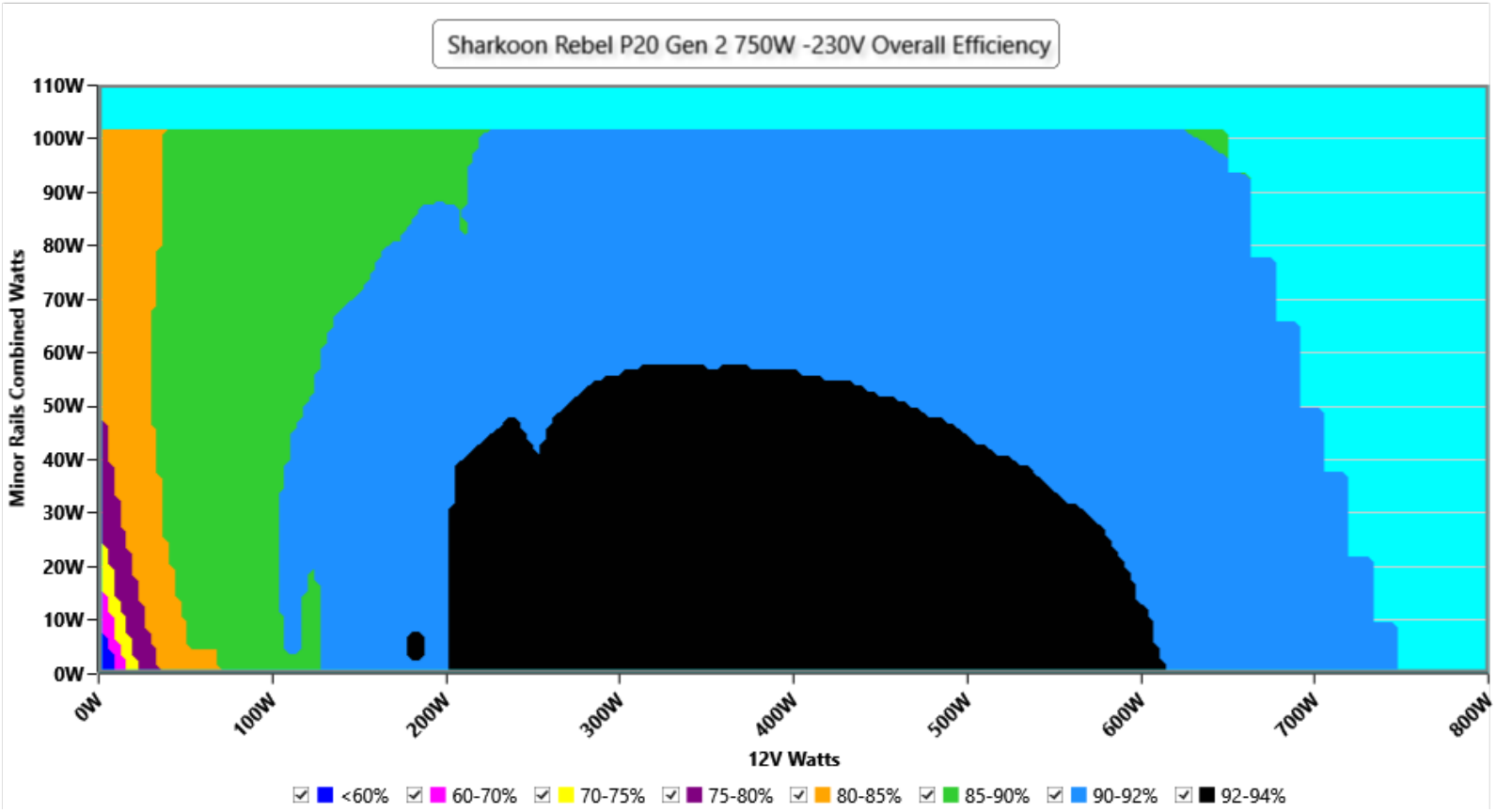
115V



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

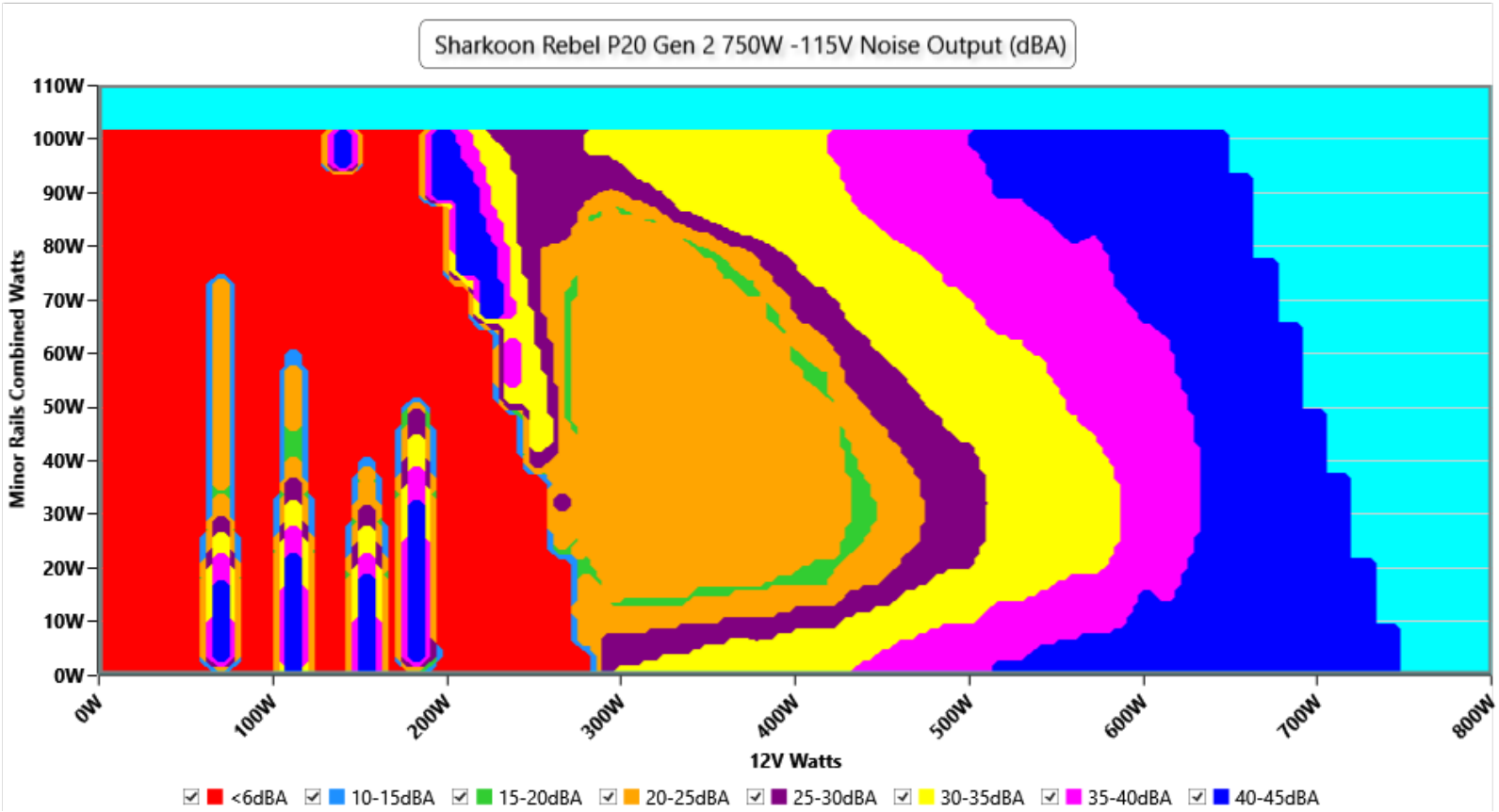


INFO

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

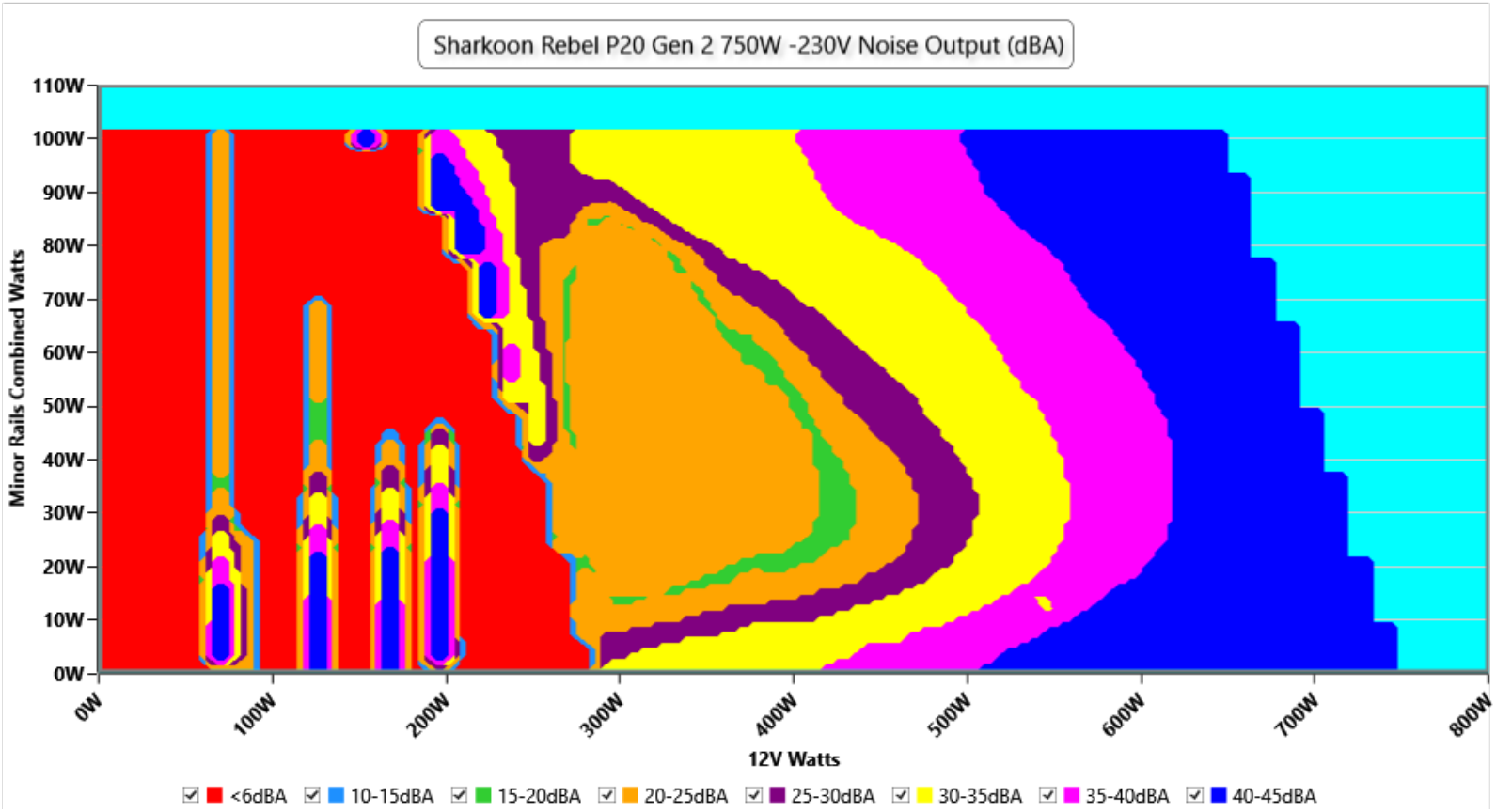
115V



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) · 38.2 °C	0 RPM · <6.0 dB(A) · 56.5 °C	fan off in both
20%	0 RPM · <6.0 dB(A) · 42.5 °C	0 RPM · <6.0 dB(A) · 59.5 °C	fan off in both
50%	707 RPM · 18.5 dB(A) · 30.4 °C	1472 RPM · 38.2 dB(A) · 42.1 °C	**+19.7 dB(A)**
100%	1770 RPM · 44.1 dB(A) · 30.2 °C	1769 RPM · 44.1 dB(A) · 45.4 °C	**+0.0 dB(A)**

230V

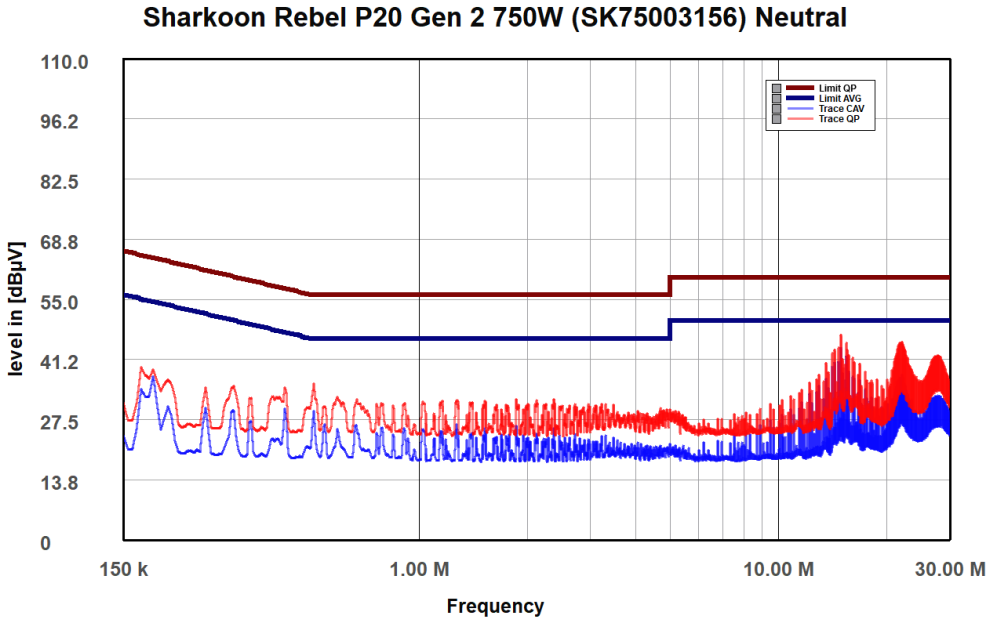
Load	Normal ambient fan · noise · intake	High ambient fan · noise · intake	Noise change
10%	0 RPM · <6.0 dB(A) · 36.7 °C	0 RPM · <6.0 dB(A) · 53.5 °C	fan off in both
20%	0 RPM · <6.0 dB(A) · 41.8 °C	0 RPM · <6.0 dB(A) · 54.9 °C	fan off in both
50%	783 RPM · 22.5 dB(A) · 30.5 °C	1396 RPM · 39.3 dB(A) · 42.5 °C	**+16.8 dB(A)**
100%	1767 RPM · 44.1 dB(A) · 30.3 °C	1770 RPM · 44.1 dB(A) · 46.0 °C	**+0.0 dB(A)**

INFO

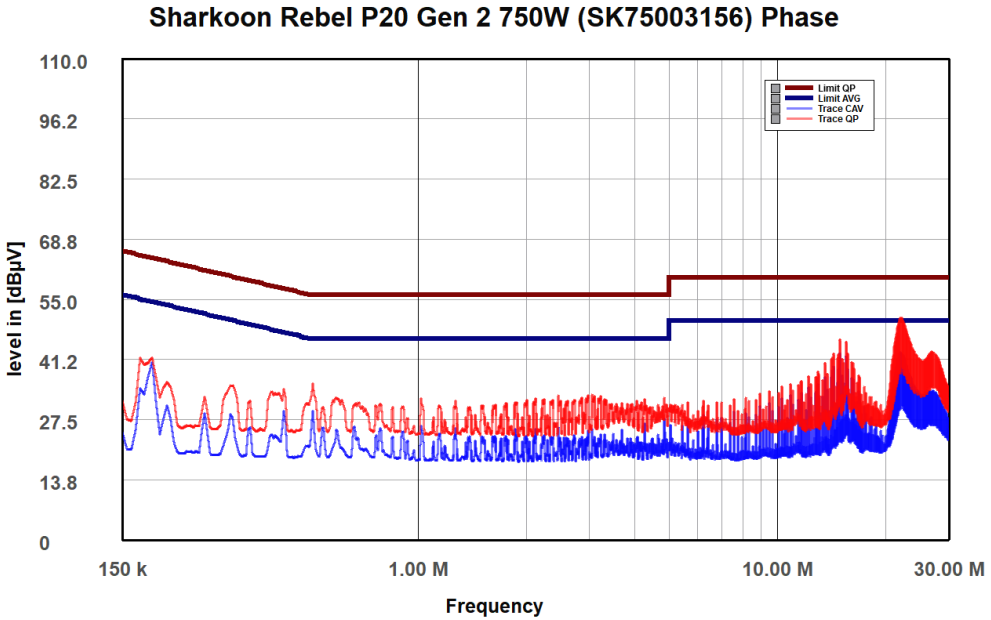
Fan speed, noise and the measured intake temperature at 10, 20, 50 and 100 % load, from the two load regulation tests: at normal ambient (about 30-32 °C) and at high ambient (about 40-47 °C). These are stabilized readings at fixed loads, not averages over the certification sweep, so they are indicative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



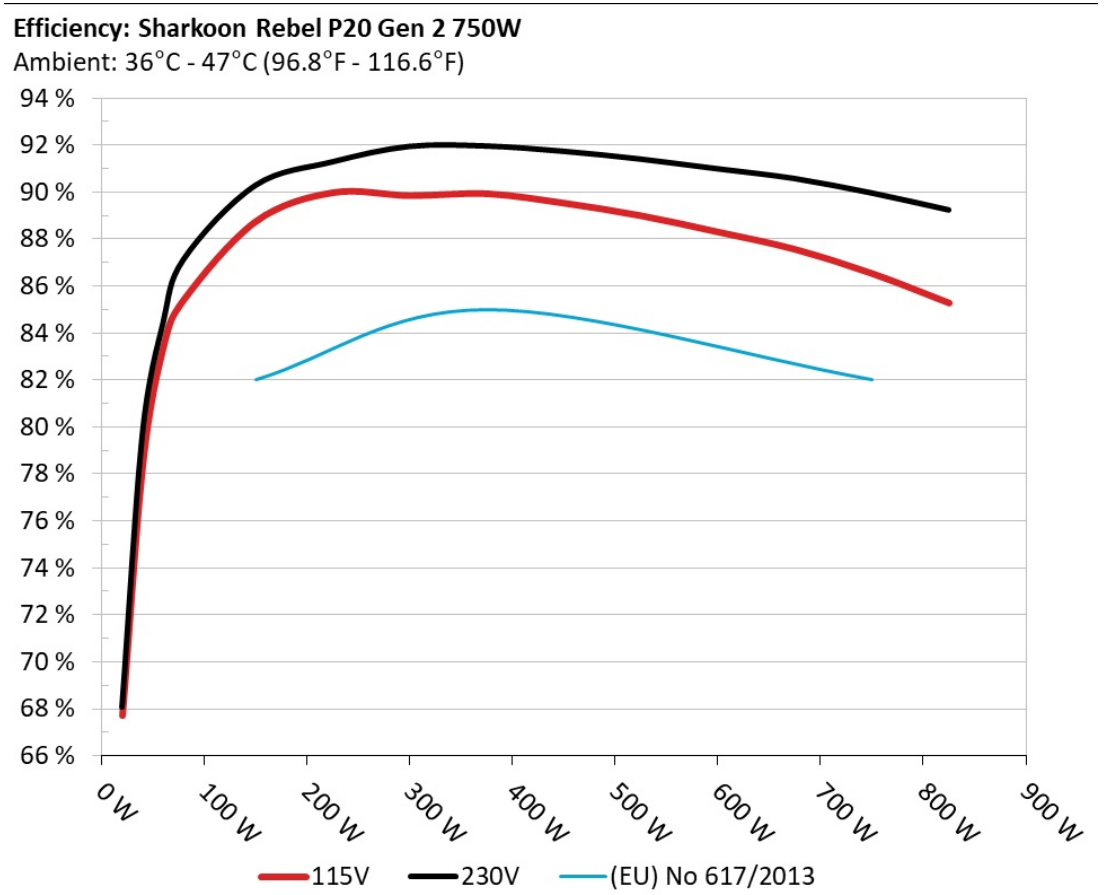
NEUTRAL



PHASE

Indicative Performance

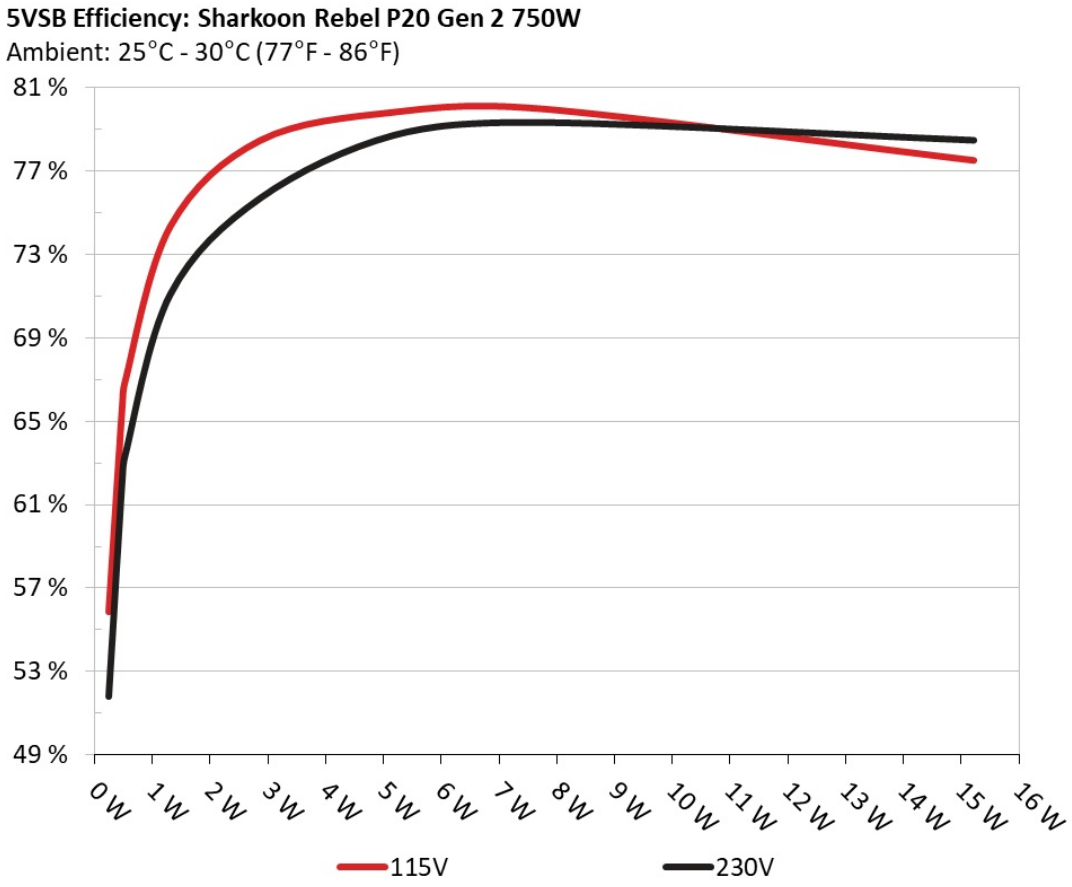
Efficiency under high ambient temperature



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	55.867%	0.046
	5.215V	0.349W		114.97V
2	**0.09A**	0.469W	65.728%	0.091
	5.213V	0.714W		114.95V
3	**0.55A**	2.856W	78.451%	0.317
	5.191V	3.641W		114.94V
4	**1A**	5.171W	79.807%	0.4
	5.17V	6.479W		114.93V
5	**1.5A**	7.721W	79.972%	0.439
	5.146V	9.655W		114.94V
6	**3.001A**	15.217W	77.499%	0.494
	5.072V	19.636W		114.94V

230V

Test #	5VSB	DC/AC (Watts)	Efficiency	PF/AC Volts
1	**0.045A**	0.235W	51.813%	0.018
	5.215V	0.454W		230.09V
2	**0.09A**	0.469W	62.213%	0.03
	5.213V	0.754W		230.09V
3	**0.55A**	2.856W	75.7%	0.138
	5.19V	3.773W		230.07V
4	**1A**	5.171W	78.718%	0.213
	5.169V	6.569W		230.07V
5	**1.5A**	7.72W	79.332%	0.274
	5.145V	9.731W		230.06V
6	**3.001A**	15.215W	78.482%	0.367
	5.071V	19.386W		230.06V

Protection Features

OCP (Normal @ 28.0°C)	12V: 76.80A (122.88%), 12.135V 5V: 23.1A (128.33%), 4.917V 3.3V: 22.8A (126.67%), 3.39V 5VSB: 4.9A (163.33%), 4.97V
OCP (Hot @ 43.3°C)	12V: 75.00A (120.00%), 12.143V 5V: 23.1A (128.33%), 4.917V 3.3V: 23.3A (129.44%), 3.386V 5VSB: 4.7A (156.67%), 4.967V
OPP (Normal @ 28.8°C)	1015.49W (135.40%)
OPP (Hot @ 42.9°C)	922.60W (123.01%)
OTP	✓ (92°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

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%	**4.360A**	**2.011A**	**1.926A**	**0.97A**	75.006	84.117%	0	<6.0	56.47°C	0.97
	12.247V	4.974V	3.427V	5.153V	89.169				40.16°C	114.95V
20%	**9.730A**	**3.024A**	**2.899A**	**1.169A**	149.956	88.742%	0	<6.0	59.45°C	0.974
	12.235V	4.961V	3.415V	5.132V	168.981				40.83°C	114.93V
30%	**15.455A**	**3.535A**	**3.392A**	**1.37A**	224.965	89.97%	0	<6.0	65.17°C	0.973
	12.223V	4.951V	3.405V	5.111V	250.042				41.08°C	114.91V
40%	**21.201A**	**4.055A**	**3.891A**	**1.572A**	300.055	89.843%	1465	38.1	41.93°C	0.979
	12.209V	4.934V	3.393V	5.091V	333.977				48.94°C	114.89V
50%	**26.592A**	**5.083A**	**4.881A**	**1.775A**	374.723	89.924%	1472	38.2	42.13°C	0.983
	12.193V	4.92V	3.381V	5.071V	416.71				49.4°C	114.87V
60%	**32.016A**	**6.115A**	**5.877A**	**1.981A**	449.648	89.523%	1729	42.6	42.6°C	0.986
	12.176V	4.907V	3.369V	5.049V	502.27				50.9°C	114.85V
70%	**37.457A**	**7.153A**	**6.882A**	**2.189A**	524.576	88.989%	1764	44	43.15°C	0.988
	12.160V	4.894V	3.357V	5.027V	589.487				52.63°C	114.83V
80%	**42.978A**	**8.196A**	**7.895A**	**2.296A**	599.794	88.294%	1767	44.1	43.74°C	0.989
	12.143V	4.881V	3.344V	5.009V	679.314				55.91°C	114.81V
90%	**48.845A**	**8.729A**	**8.402A**	**2.404A**	674.833	87.553%	1768	44.1	44.91°C	0.99
	12.126V	4.87V	3.333V	4.992V	770.777				59.1°C	114.79V
100%	**54.532A**	**9.265A**	**8.946A**	**3.034A**	750.064	86.524%	1769	44.1	45.36°C	0.992
	12.110V	4.857V	3.32V	4.946V	866.893				62.93°C	114.77V
110%	**60.104A**	**10.323A**	**10.074A**	**3.043A**	825.099	85.266%	1768	44.1	47.04°C	0.993
	12.093V	4.844V	3.305V	4.93V	967.681				67.88°C	114.75V
CL1	**0.115A**	**12.216A**	**11.685A**	**0A**	101.313	79.199%	1639	41.5	40.14°C	0.989
	12.229V	4.928V	3.397V	5.175V	127.922				46.91°C	114.94V

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**	**18.25A**	**0A**	**0A**	91.405	79.206%	942	26.1	40.39°C	0.988
	12.235V	4.932V	3.411V	5.186V	115.403				45.04°C	114.94V
CL3	**0.114A**	**0A**	**17.463A**	**0A**	60.8	70.362%	1432	38.4	40°C	0.968
	12.232V	4.956V	3.402V	5.187V	86.41				43.64°C	114.95V
CL4	**61.853A**	**0A**	**0A**	**0A**	749.83	87.946%	1774	44.2	45.97°C	0.991
	12.123V	4.894V	3.344V	5.125V	852.611				59.33°C	114.77V

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%	**4.360A**	**2.011A**	**1.926A**	**0.971A**	75.01	85.872%	0	<6.0	53.48°C	0.845
	12.248V	4.974V	3.427V	5.152V	87.353				40.11°C	230.07V
20%	**9.731A**	**3.024A**	**2.899A**	**1.17A**	149.971	90.276%	0	<6.0	54.86°C	0.923
	12.235V	4.962V	3.415V	5.131V	166.128				40.64°C	230.06V
30%	**15.459A**	**3.539A**	**3.394A**	**1.37A**	224.981	91.277%	1342	35.7	41.42°C	0.943
	12.222V	4.946V	3.403V	5.111V	246.485				47.89°C	230.05V
40%	**21.208A**	**4.056A**	**3.892A**	**1.572A**	300.076	91.936%	1174	32	41.62°C	0.952
	12.206V	4.932V	3.392V	5.092V	326.397				46.61°C	230.05V
50%	**26.602A**	**5.084A**	**4.882A**	**1.776A**	374.791	91.949%	1396	39.3	42.48°C	0.957
	12.190V	4.919V	3.38V	5.07V	407.611				47.1°C	230.04V
60%	**32.029A**	**6.117A**	**5.879A**	**1.981A**	449.713	91.727%	1657	41.8	42.67°C	0.961
	12.173V	4.906V	3.368V	5.049V	490.275				47.78°C	230.03V
70%	**37.473A**	**7.156A**	**6.885A**	**2.189A**	524.642	91.396%	1765	44	43.42°C	0.965
	12.156V	4.893V	3.356V	5.027V	574.029				49.59°C	230.02V
80%	**42.999A**	**8.199A**	**7.898A**	**2.297A**	599.869	90.984%	1768	44.1	43.73°C	0.969
	12.139V	4.88V	3.343V	5.008V	659.317				51.57°C	230.01V
90%	**48.869A**	**8.733A**	**8.406A**	**2.405A**	674.912	90.567%	1769	44.1	44.14°C	0.97
	12.122V	4.868V	3.331V	4.991V	745.21				53.17°C	230V

Test	12V	5V	3.3V	5VSB	DC/AC (Watts)	Efficiency	Fan Speed (RPM)	PSU Noise (dB[A])	Temps (In/Out)	PF/AC Volts
100%	**54.559A**	**9.27A**	**8.951A**	**3.034A**	750.146	89.952%	1770	44.1	45.95°C	0.972
	12.105V	4.856V	3.318V	4.945V	833.943				56.42°C	229.99V
110%	**60.130A**	**10.328A**	**10.079A**	**3.043A**	825.17	89.231%	1769	44.1	45.79°C	0.974
	12.088V	4.842V	3.304V	4.93V	924.754				59.18°C	229.98V
CL1	**0.115A**	**12.219A**	**11.687A**	**0A**	101.321	80.825%	1365	37	40.16°C	0.893
	12.226V	4.927V	3.397V	5.176V	125.359				44.15°C	230.05V
CL2	**0.115A**	**18.249A**	**0A**	**0A**	91.41	80.593%	816	23.7	40.14°C	0.879
	12.233V	4.932V	3.411V	5.186V	113.42				44.64°C	230.05V
CL3	**0.115A**	**0A**	**17.465A**	**0A**	60.804	71.572%	1492	38.6	41.71°C	0.838
	12.232V	4.955V	3.401V	5.187V	84.957				43.9°C	230.05V
CL4	**61.879A**	**0A**	**0A**	**0A**	749.889	91.196%	1776	44.2	45.96°C	0.971
	12.119V	4.892V	3.343V	5.124V	822.282				53.97°C	229.98V

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	**1.212A**	**0.501A**	**0.48A**	**0.192A**	20.006	67.688%	0	<6.0	54.16°C	0.891
	12.259V	4.986V	3.438V	5.202V	29.556				36.97°C	114.97V
40W	**2.668A**	**0.702A**	**0.673A**	**0.289A**	40.004	78.462%	0	<6.0	53.39°C	0.948
	12.255V	4.983V	3.434V	5.194V	50.985				37.25°C	114.97V
60W	**4.124A**	**0.904A**	**0.865A**	**0.386A**	60.003	83.406%	0	<6.0	53.05°C	0.97
	12.251V	4.98V	3.432V	5.187V	71.938				38.02°C	114.95V
80W	**5.578A**	**1.105A**	**1.059A**	**0.483A**	79.959	85.414%	0	<6.0	53.87°C	0.971
	12.248V	4.977V	3.429V	5.179V	93.613				39.13°C	114.95V

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	**1.212A**	**0.502A**	**0.48A**	**0.192A**	20.007	68.058%	0	<6.0	37.06°C	0.56
	12.256V	4.983V	3.436V	5.202V	29.399				36.2°C	230.1V
40W	**2.668A**	**0.703A**	**0.673A**	**0.289A**	40.005	79.742%	0	<6.0	49.77°C	0.71
	12.253V	4.982V	3.434V	5.195V	50.17				37.72°C	230.1V
60W	**4.125A**	**0.904A**	**0.866A**	**0.386A**	60.005	84.422%	0	<6.0	49.91°C	0.801
	12.250V	4.98V	3.431V	5.187V	71.078				38.34°C	230.09V
80W	**5.579A**	**1.105A**	**1.059A**	**0.483A**	79.966	87.125%	0	<6.0	50.19°C	0.852
	12.248V	4.977V	3.428V	5.179V	91.783				39.14°C	230.08V

The results above are not used in the certification process

Ripple Measurements

115V

Test	12V	5V	3.3V	5VSB	Pass/Fail
10% Load	17.45mV	14.54mV	10.12mV	15.08mV	Pass
20% Load	21.32mV	15.46mV	10.17mV	15.85mV	Pass
30% Load	24.63mV	16.47mV	11.09mV	17.02mV	Pass
40% Load	27.48mV	16.78mV	12.36mV	17.52mV	Pass
50% Load	29.67mV	17.34mV	11.90mV	18.04mV	Pass
60% Load	31.70mV	17.60mV	11.90mV	19.46mV	Pass
70% Load	33.48mV	17.95mV	11.80mV	20.12mV	Pass
80% Load	37.14mV	19.28mV	14.90mV	21.85mV	Pass
90% Load	43.30mV	19.18mV	14.65mV	23.64mV	Pass
100% Load	46.30mV	18.27mV	14.97mV	23.86mV	Pass
110% Load	53.12mV	19.90mV	16.68mV	25.92mV	Pass
Crossload1	18.76mV	17.52mV	13.72mV	23.02mV	Pass
Crossload2	17.76mV	15.05mV	9.77mV	23.33mV	Pass

Test	12V	5V	3.3V	5VSB	Pass/Fail
Crossload3	17.35mV	16.83mV	14.90mV	23.28mV	Pass
Crossload4	47.03mV	16.41mV	11.51mV	27.73mV	Pass

The results above are not used in the certification process

230V

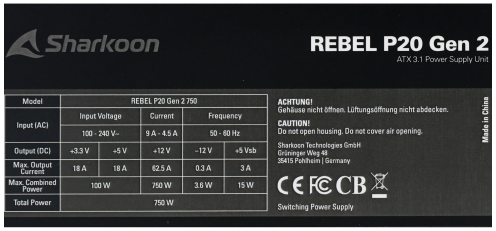
Test	12V	5V	3.3V	5VSB	Pass/Fail
10% Load	16.74mV	14.94mV	10.43mV	14.77mV	Pass
20% Load	20.81mV	15.45mV	9.97mV	15.59mV	Pass
30% Load	24.48mV	16.22mV	10.73mV	17.58mV	Pass
40% Load	28.55mV	16.73mV	10.98mV	17.12mV	Pass
50% Load	31.09mV	17.24mV	11.49mV	17.88mV	Pass
60% Load	33.33mV	18.06mV	12.00mV	19.16mV	Pass
70% Load	37.86mV	18.11mV	12.41mV	19.51mV	Pass
80% Load	39.95mV	18.52mV	14.70mV	21.45mV	Pass
90% Load	47.17mV	19.08mV	15.31mV	22.82mV	Pass
100% Load	50.06mV	18.70mV	14.47mV	23.55mV	Pass
110% Load	55.29mV	21.13mV	15.62mV	23.86mV	Pass
Crossload1	18.67mV	17.12mV	14.34mV	23.10mV	Pass
Crossload2	18.42mV	15.20mV	9.76mV	23.28mV	Pass
Crossload3	16.84mV	16.68mV	14.90mV	23.69mV	Pass
Crossload4	48.12mV	16.55mV	11.56mV	26.20mV	Pass

The results above are not used in the certification process

Sharkoon Rebel P20 Gen2 750



Top side



Power specifications label



Fan



PSU

Cybenetics □□□□□□□□□□□□□□□□□□ ETA□□□□□ LAMBDA□□□□□ SAFE□□□□□□□□□□□□□□□□□ DELTA□□□□□□□ PHI□□□□□□□□□

CYBENETICS LTD Syrou 6, Latsia, 2231, Nicosia Cyprus

www.cybenetics.com - info@cybenetics.com