

#### Corsair RM650 (2019) (#2)

Lab ID#: CR19650015 Receipt Date: Mar 21, 2019 Test Date: May 4, 2019

Anex

Report:

Report Date: Aug 4, 2019

DUT INFORMATION				
Brand	Corsair			
Manufacturer (OEM)	Channel Well Technology			
Series	RM			
Model Number				
Serial Number	19027120000038920016			
DUT Notes	CP-9020194			

DUT SPECIFICATIO	NS
Rated Voltage (Vrms)	100-240
Rated Current (Arms)	10-5
Rated Frequency (Hz)	47-63
Rated Power (W)	650
Туре	ATX12V
Cooling	140mm Rifle Bearing Fan (HA1425M12F-Z)
Semi-Passive Operation	√
Cable Design	Fully Modular

#### **TEST EQUIPMENT**

	Chroma 6314A x2	Chroma 63601-5 x4			
Electronic Loads	63123A x6	Chroma 63600-2 x2			
Election lic Loads	63102A	63640-80-80 x20			
	63101A	63610-80-20 x2			
AC Sources	Chroma 6530, Chroma 61604, Keysight AC6804B				
Power Analyzers	N4L PPA1530 x2, N4L PPA5530				
Oscilloscopes	Picoscope 4444 & 3424, Keysight DSOX3024A, Rigol DS2072A				
Voltmeter	Keithley 2015 THD 6.5 Digit				
Sound Analyzer	Bruel & Kjaer 2250-L G4				
Microphone	Bruel & Kjaer Type 4955-A, Bruel & Kjaer Type 4189				
Data Loggers	Picoscope TC-08 x2, Labjack U3-HV x2				

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## EFFICIENCY AND NOISE LEVEL CERTIFICATIONS

#### Corsair RM650 (2019) (#2)

RESULTS	
Temperature Range (°C /°F)	30-32 / 86-89.6
ErP Lot 3/6 Ready	1
(EU) No 617/2013 Compliance	1

115V	
Average Efficiency	88.782%
Efficiency With 10W (≤500W) or 2% (>500W)	75.342
Average Efficiency 5VSB	77.636%
Standby Power Consumption (W)	0.0371971
Average PF	0.991
Avg Noise Output	19.31 dB(A)
Efficiency Rating (ETA)	GOLD
Noise Rating (LAMBDA)	A+

230V	
Average Efficiency	90.816%
Average Efficiency 5VSB	77.116%
Standby Power Consumption (W)	0.0636784
Average PF	0.961
Avg Noise Output	19.50 dB(A)
Efficiency Rating (ETA)	GOLD
Noise Rating (LAMBDA)	A+

#### **POWER SPECIFICATIONS**

Rail		3.3V	5V	12V	5VSB	-12V
Max. Power	Amps	20	20	54	3	0.3
	Watts	130		648	15	3.6
Total Max. Power (W)	650					

#### HOLD-UP TIME & POWER OK SIGNAL (230V)

Hold-Up Time (ms)	20.90
AC Loss to PWR_OK Hold Up Time (ms)	18.60
PWR_OK Inactive to DC Loss Delay (ms)	2.30

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## EFFICIENCY AND NOISE LEVEL CERTIFICATIONS

#### Corsair RM650 (2019) (#2)

#### **CABLES AND CONNECTORS** Modular Cables Description Cable Count Connector Count (Total) Gauge In Cable Capacitors 1 1 18-20AWG ATX connector 20+4 pin (610mm) No 4+4 pin EPS12V (650mm) 2 2 18AWG No 6+2 pin PCle (600mm+150mm) 2 4 16-18AWG No SATA (500mm+100mm+100mm) 2 6 18AWG No 1 4 4 pin Molex (450mm+100mm+100mm+100mm) 18AWG No 1 AC Power Cord (1420mm) - C13 coupler 1 16AWG

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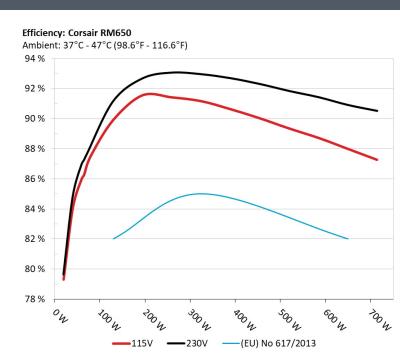


#### Anex

#### Corsair RM650 (2019) (#2)

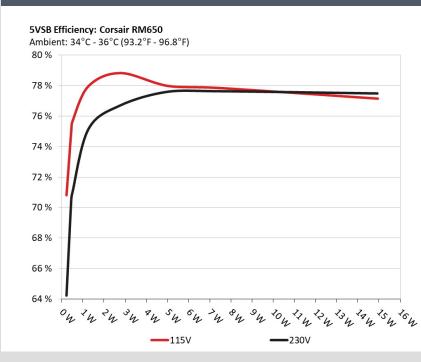
The PSU`s efficiency under high ambient

temperatures with 115V and 230V input. For this graph the results of the 10-110% load regulation



#### EFFICIENCY UNDER HIGH AMBIENT TEMPERATURE

#### **5VSB EFFICIENCY**



INFO

INFO

table are used

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

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#### Anex

#### Corsair RM650 (2019) (#2)

5VSB EFFICIENCY -115V (ERP LOT 3/6 & CEC)							
Test #	5VSB	DC/AC (Watts)	Efficiency	PF/AC Volts			
1	0.045A	0.228	70.0070/	0.032			
1	5.055V	0.322	70.807%	115.13V			
2	0.090A	0.455	75.0000/	0.058			
2	5.054V	0.606	75.083%	115.13V			
2	0.550A	2.774	70.000/	0.254			
3	5.043V	3.519	78.829%	115.11V			
4	1.000A	5.032		0.343			
4	5.031V	6.453	77.979%	115.11V			
-	1.500A	7.528	77.0410/	0.393			
5	5.018V	9.671	77.841%	115.12V			
6	3.000A	14.939	77.1.400/	0.457			
	4.980V	19.364	77.148%	115.12V			

#### 5VSB EFFICIENCY -230V (ERP LOT 3/6 & CEC)

Test #5VSBDC/AC (Watts)EfficiencyPF/AC Volts10.045A0.228					
$ \begin{array}{c c c c c c } \hline & & & & & & & & & & & & & & & & & & $	Test #	5VSB	DC/AC (Watts)	Efficiency	PF/AC Volts
1 + 2 + 2 + 2 + 2 + 2 + 2 + 2 + 2 + 2 +	1	0.045A	0.228	C4 2250/	0.010
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	1	5.054V	0.355	64.225%	230.27V
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	2	0.090A	0.455	70 5 4 20/	0.019
3     5.042V     3.617     76.693%     230.29V       4     1.000A     5.031     0.163     0.163       5.030V     6.484     7.591%     230.29V       5     1.500A     7.526     0.163       5     0.17V     9.696     7.7620%     0.218       6     3.000A     14.932     77.476%     0.315	2	5.053V	0.645	70.543%	230.26V
	2	0.550A	2.774	76 6000/	0.099
4 5.030V 6.484 77.591% 230.29V   5 1.500A 7.526 0.218   5.017V 9.696 230.28V   6 3.000A 14.932 77.476%	3	5.042V	3.617	76.693%	230.29V
5.030V     6.484     230.29V       5     1.500A     7.526     0.218       5.017V     9.696     230.28V       6     3.000A     14.932     77.476%	4	1.000A	5.031	77 5010/	0.163
5 5.017V 9.696 230.28V   3.000A 14.932 0.315	4	5.030V	6.484	/7.591%	230.29V
5.017V     9.696     230.28V       3.000A     14.932     0.315	-	1.500A	7.526	77 (200/	0.218
6 77.476%	5	5.017V	9.696	/7.620%	230.28V
	6	3.000A	14.932		0.315
		4.978V	19.273	//.4/0%	230.27V

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PAGE 5/16

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EFFICIENCY AND NOISE LEVEL CERTIFICATIONS

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# **115V**

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**PAGE 6/16** 

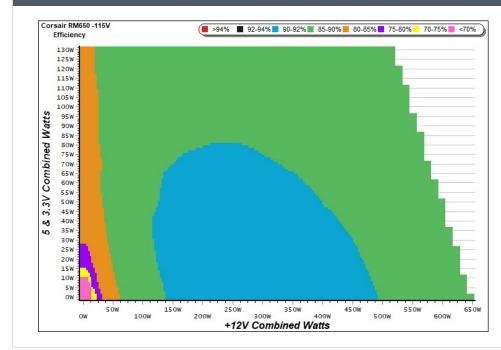
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#### Anex

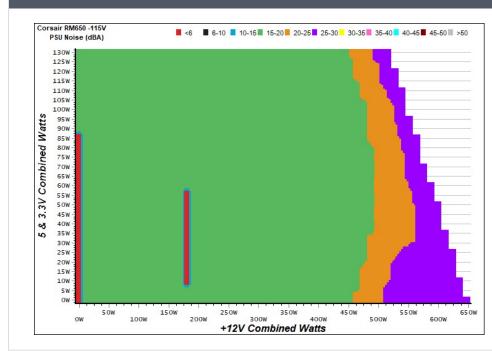
#### **EFFICIENCY GRAPH 115V**



#### 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

#### 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

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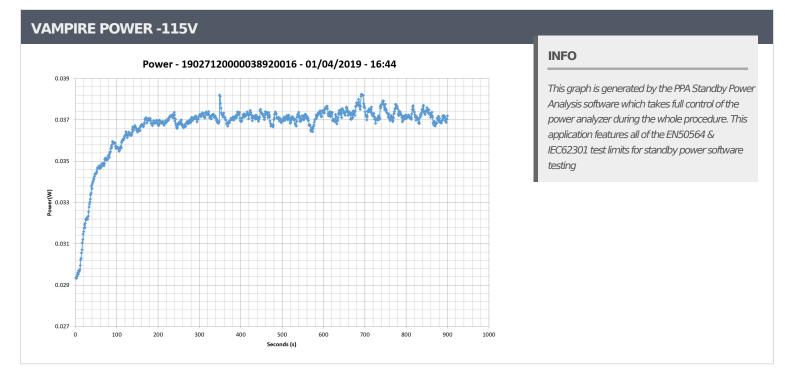
PAGE 7/16

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#### Anex

#### Corsair RM650 (2019) (#2)

10-110% 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
1	3.578A	1.985A	1.999A	0.997A	64.831	06 2650/	86.265% 0	-6.0	43.82°C	0.966
1	12.082V	5.038V	3.302V	5.016V	75.153	80.203%		<6.0	39.88°C	115.11V
2	8.103A	2.978A	3.000A	1.198A	129.365	- 90.0020/	0	<6.0	44.84°C	0.988
۲ 	12.152V	5.036V	3.299V	5.011V	143.896	89.902%	0	<0.0	40.52°C	115.11V
2	13.061A	3.478A	3.488A	1.399A	194.462	01 E 460/	0	-6.0	45.80°C	0.992
3	12.132V	5.034V	3.296V	5.005V	212.421	91.546%	0	<6.0	41.09°C	115.12V
4	18.030A	3.975A	4.005A	1.601A	259.712	01 4000/	704	16.1	41.93°C	0.995
4	12.119V	5.032V	3.296V	4.999V	284.124	91.408%	.408% 784	16.1	46.95°C	115.11V
F	22.669A	4.975A	5.010A	1.803A	324.996	01 15 40/	786	16.0	42.52°C	0.995
5	12.108V	5.029V	3.293V	4.993V	356.537	91.154%		16.2	48.24°C	115.11V
C	27.246A	5.971A	6.015A	2.006A	389.540	00.6250/	00 (25%) 010	21.2	42.72°C	0.994
6	12.102V	5.026V	3.291V	4.987V	429.836	90.625% 918	918		48.90°C	115.12V
7	31.903A	6.969A	7.019A	2.209A	454.850	00.0100/	1040	25.7	43.10°C	0.994
7	12.091V	5.024V	3.290V	4.982V	505.289	90.018%	1049	25.7	50.43°C	115.12V
0	36.562A	7.968A	8.025A	2.412A	520.146	00.2400/	1010	20.4	43.72°C	0.995
8	12.082V	5.021V	3.289V	4.976V	582.209	89.340%	1210	30.4	51.98°C	115.12V
0	41.608A	8.469A	8.517A	2.413A	585.056	00 71 70/	1410	25.0	44.29°C	0.996
9	12.078V	5.019V	3.288V	4.975V	659.461	88.717%	1413	35.0	53.20°C	115.11V
10	46.396A	8.973A	9.038A	3.027A	649.870	07.0000/	1500	20 5	45.56°C	0.996
10	12.073V	5.017V	3.287V	4.957V	738.554	87.992%	1598	38.5	55.31°C	115.11V
11	51.775A	8.975A	9.043A	3.029A	714.711	07.2660/	1766	41.1	46.99°C	0.996
11	12.071V	5.016V	3.285V	4.955V	819.007	87.266%	1766	41.1	57.77°C	115.11V
0.1	0.138A	16.003A	16.000A	0.000A	134.699	04.0520/	026	21.0	42.46°C	0.990
CL1	12.144V	5.019V	3.294V	5.069V	160.254	84.053%	926	21.8	48.60°C	115.13V
	54.178A	1.002A	1.001A	1.000A	667.952	00 51 20/	1642	20.2	45.71°C	0.996
CL2	12.083V	5.025V	3.285V	4.996V	754.641	88.513%	1643	39.2	55.62°C	115.11V

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#### Anex

#### Corsair RM650 (2019) (#2)

20-80	20-80W LOAD TESTS 115V										
Test #	12V	5V	3.3V	5VSB	DC/AC (Watts)	Efficiency	Fan Speed (RPM)	PSU Noise (dB[A])	PF/AC Volts		
1	1.190A	0.495A	0.483A	0.199A	19.455	70 21 40/	0	<6.0	0.807		
1	12.072V	5.037V	3.299V	5.032V	24.529	79.314%			115.11V		
2	2.450A 0.992A 0.997A	0.997A	0.398A	39.873	04.0000/	0		0.930			
2	12.074V	5.038V	3.303V	5.029V	47.429	84.069%	0	<6.0	115.11V		
2	3.642A	1.487A	1.481A	0.597A	59.378	05 00 40/	0	-6.0	0.962		
3	12.080V	5.037V	3.303V	5.025V	69.057	85.984%	% 0	<6.0	115.11V		
	4.880A	1.985A	1.999A	0.797A	79.783	07 5000	0		0.976		
4	12.127V	5.037V	3.303V	5.021V	91.157	87.523%	0	<6.0	115.11V		

#### **RIPPLE MEASUREMENTS 115V**

Test	12V	5V	3.3V	5VSB	Pass/Fail
10% Load	13.5 mV	7.8 mV	10.8 mV	9.2 mV	Pass
20% Load	7.1 mV	8.1 mV	11.4 mV	10.5 mV	Pass
30% Load	10.4 mV	8.8 mV	11.6 mV	10.8 mV	Pass
40% Load	9.7 mV	9.1 mV	12.2 mV	10.1 mV	Pass
50% Load	10.4 mV	11.3 mV	15.5 mV	11.5 mV	Pass
60% Load	10.1 mV	10.5 mV	13.1 mV	9.8 mV	Pass
70% Load	11.2 mV	11.0 mV	13.8 mV	10.7 mV	Pass
80% Load	11.8 mV	11.4 mV	15.0 mV	10.6 mV	Pass
90% Load	12.7 mV	11.9 mV	15.1 mV	10.7 mV	Pass
100% Load	17.8 mV	13.4 mV	15.9 mV	11.4 mV	Pass
110% Load	21.2 mV	13.6 mV	15.9 mV	11.4 mV	Pass
Crossload 1	21.9 mV	11.7 mV	16.7 mV	10.8 mV	Pass
Crossload 2	16.3 mV	10.7 mV	13.4 mV	10.8 mV	Pass

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PAGE 10/16

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EFFICIENCY AND NOISE LEVEL CERTIFICATIONS

Corsair RM650 (2019) (#2)

# **230V**

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PAGE 11/16

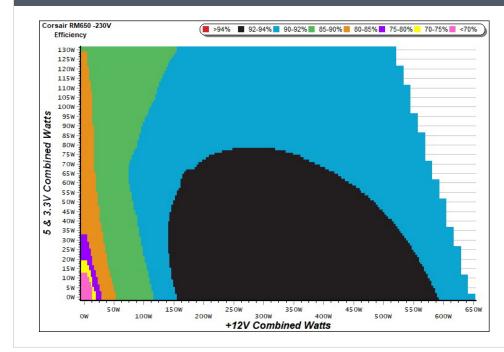
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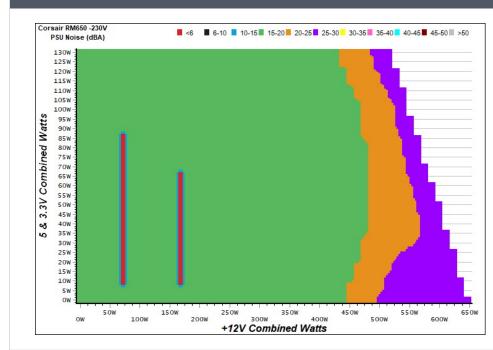
#### **EFFICIENCY GRAPH 230V**



#### 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 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

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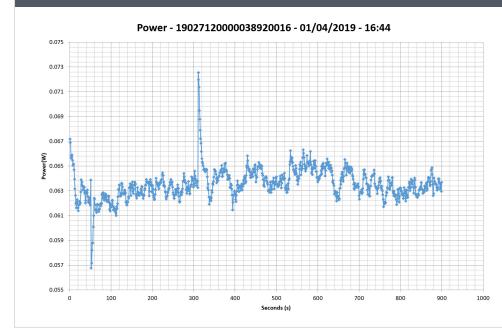
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#### **VAMPIRE POWER -230V**



#### INFO

This graph is generated by the PPA Standby Power Analysis software which takes full control of the power analyzer during the whole procedure. This application features all of the EN50564 & IEC62301 test limits for standby power software testing

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#### Corsair RM650 (2019) (#2)

10-110% LOAD TESTS 230V										
Test #	12V	5V	3.3V	5VSB	DC/AC (Watts)	Efficiency	Fan Speed (RPM)	PSU Noise (dB[A])	Temps (In/Out)	PF/AC Volts
1	3.585A	1.985A	1.998A	0.997A	64.928	07.2440/	0	<6.0	44.01°C	0.789
	12.085V	5.040V	3.301V	5.019V	74.421	87.244%	0		39.84°C	230.27V
2	8.100A	2.978A	3.001A	1.197A	129.372	01 1 450/	0	<6.0	45.53°C	0.916
Ζ	12.157V	5.038V	3.298V	5.013V	141.941	91.145%			40.55°C	230.27V
2	13.065A	3.476A	3.487A	1.398A	194.468	02 6600/	701	100	41.33°C	0.953
3	12.129V	5.036V	3.297V	5.008V	209.855	92.668%	791	16.3	46.90°C	230.26V
4	18.027A	3.973A	4.005A	1.600A	259.654		700	16.2	41.71°C	0.969
4	12.118V	5.034V	3.296V	5.001V	279.032	93.055%	788		47.83°C	230.25V
F	22.667A		02.0400/	700	16.2	42.13°C	0.978			
5	12.107V	5.032V	3.294V	4.996V	349.582	92.948%	790	16.3	48.75°C	230.24V
C	27.250A	5.966A	6.012A	2.004A	389.445	02 6060/	791	16.3	42.60°C	0.982
6	12.097V	5.029V	3.293V	4.991V	420.177	92.686%			49.74°C	230.24V
7	31.902A	6.962A	7.019A	2.207A	454.763	92.298%	925	21.8	43.06°C	0.985
7	12.089V	5.027V	3.291V	4.985V	492.709				50.85°C	230.24V
0	36.556A	7.963A	8.025A	2.411A	520.074	01.0220/	1100	30.1	43.68°C	0.987
8	12.082V	5.024V	3.289V	4.979V	566.330	91.832%	1193		52.34°C	230.24V
0	41.608A	8.467A	8.516A	2.411A	585.024	01 4220/	1400	24.0	44.41°C	0.989
9	12.077V	5.022V	3.288V	4.978V	639.911	91.423%	1406	34.8	53.70°C	230.25V
10	46.397A	8.968A	9.038A	3.026A	649.865	90.906%	.906% 1635	39.0	45.55°C	0.990
10	12.073V	5.019V	3.286V	4.959V	714.877				55.66°C	230.25V
11	51.787A	8.973A	9.043A	3.027A	714.694	00 51 40/	1762	41.0	46.87°C	0.991
11	12.068V	5.018V	3.284V	4.957V	789.591	90.514%	1763		57.55°C	230.25V
<b>C</b> 1	0.142A	16.004A	15.999A	0.000A	134.782	85.124%	85.124% 928	21.9	42.36°C	0.930
CL1	12.142V	5.022V	3.293V	5.071V	158.336				48.52°C	230.26V
ab	54.179A	1.002A	1.001A	1.000A	667.863	01 5150/	1500	20.2	45.68°C	0.990
CL2	12.081V	5.028V	3.285V	5.000V	729.789	91.515%	1589	38.3	55.96°C	230.26V

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#### Corsair RM650 (2019) (#2)

20-80W LOAD TESTS 230V										
Test #	12V	5V	3.3V	5VSB	DC/AC (Watts)	Efficiency	Fan Speed (RPM)	PSU Noise (dB[A])	PF/AC Volts	
1	1.198A	0.496A	0.485A	0.199A	19.564	70 6610/	0	<6.0	0.418	
1 12.074V	12.074V	5.039V	3.298V	5.035V	24.559	79.661%			230.27V	
2	2.459A	0.993A	0.997A	0.398A	39.997	04.0170/	0	<6.0	0.645	
2 -	12.076V	5.041V	3.303V	5.032V	47.157	84.817%			230.27V	
2	3.651A	1.486A	1.484A	0.597A	59.503	00.0520/	0	<6.0	0.765	
3	12.082V	5.040V	3.302V	5.028V	68.431	86.953%			230.27V	
4	4.274A	1.984A	1.998A	0.796A	72.564	07 7000/	0	<6.0	0.817	
	12.159V	5.040V	3.302V	5.024V	82.720	87.722%	U		230.28V	
3	12.082V 4.274A	5.040V 1.984A	3.302V 1.998A	5.028V 0.796A	68.431 72.564	86.953% 87.722%	0		230.27V 0.817	

#### **RIPPLE MEASUREMENTS 230V**

Test	12V	5V	3.3V	5VSB	Pass/Fail
10% Load	14.2 mV	7.5 mV	11.3 mV	9.4 mV	Pass
20% Load	7.4 mV	7.7 mV	10.7 mV	9.6 mV	Pass
30% Load	11.3 mV	8.7 mV	11.6 mV	9.8 mV	Pass
40% Load	10.1 mV	8.5 mV	12.3 mV	9.6 mV	Pass
50% Load	9.6 mV	10.1 mV	14.3 mV	10.5 mV	Pass
60% Load	9.7 mV	10.6 mV	12.8 mV	10.0 mV	Pass
70% Load	10.0 mV	11.3 mV	12.8 mV	10.2 mV	Pass
80% Load	10.1 mV	11.0 mV	15.0 mV	9.7 mV	Pass
90% Load	12.1 mV	11.7 mV	15.0 mV	10.2 mV	Pass
100% Load	17.9 mV	13.0 mV	16.5 mV	10.8 mV	Pass
110% Load	19.9 mV	13.4 mV	24.6 mV	10.9 mV	Pass
Crossload 1	24.3 mV	11.4 mV	16.5 mV	10.5 mV	Pass
Crossload 2	16.7 mV	10.9 mV	14.7 mV	10.6 mV	Pass

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

PAGE 15/16

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## EFFICIENCY AND NOISE LEVEL CERTIFICATIONS

#### Corsair RM650 (2019) (#2)



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**PAGE 16/16** 

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