

Anex

Corsair AX1600i (#2)

Lab ID#: 260

Receipt Date: Jan 24, 2018 Test Date: Jan 30, 2018 Report:

Report Date: Feb 1, 2018

| DUT INFORMATION    |                      |  |  |
|--------------------|----------------------|--|--|
| Brand              | Corsair              |  |  |
| Manufacturer (OEM) | Flextronics          |  |  |
| Series             | AXi                  |  |  |
| Model Number       |                      |  |  |
| Serial Number      | 17429560000049040160 |  |  |
| DUT Notes          | Balanced Profile     |  |  |
|                    |                      |  |  |

| DUT SPECIFICATION      | ONS                                      |
|------------------------|--|
| Rated Voltage (Vrms)   | 100-240                                  |
| Rated Current (Arms)   | 18-9                                     |
| Rated Frequency (Hz)   | 50-60                                    |
| Rated Power (W)        | 1600                                     |
| Туре                   | ATX12V                                   |
| Cooling                | 140mm Fluid Dynamic Bearing Fan (NR140P) |
| Semi-Passive Operation | ✓ (selectable)                           |
| Cable Design           | Fully Modular                            |

| TEST EQUIPMENT   |  |                                     |  |  |
|------------------|--|-------------------------------------|--|--|
|                  | Chroma 6314A x2<br>63123A x6                             | Chroma 63601-5 x2<br>Chroma 63600-2 |  |  |
| Electronic Loads | 63102A   | 63640-80-80 x10                     |  |  |
|                  | 63101A   | 63610-80-20                         |  |  |
| AC Sources       | Chroma 6530, Chroma 61604                                |                                     |  |  |
| Power Analyzers  | N4L PPA1530, 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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| RESULTS                     |                 |
|-----------------------------|-----------------|
| Temperature Range (°C/°F)   | 30-32 / 86-89.6 |
| ErP Lot 3/6 Ready           | ✓               |
| (EU) No 617/2013 Compliance | /               |

| 115V                                      |             |
|---|-------------|
| Average Efficiency                        | 92.288%     |
| Efficiency With 10W (≤500W) or 2% (>500W) | 0.000       |
| Average Efficiency 5VSB                   | 81.676%     |
| Standby Power Consumption (W)             | 0.0481594   |
| Average PF                                | 0.992       |
| Avg Noise Output                          | 23.70 dB(A) |
| Efficiency Rating (ETA)                   | TITANIUM    |
| Noise Rating (LAMBDA)                     | Α           |

| 230V                          |             |
|-------------------------------|-------------|
| Average Efficiency            | 94.209%     |
| Average Efficiency 5VSB       | 81.291%     |
| Standby Power Consumption (W) | 0.0732974   |
| Average PF                    | 0.989       |
| Avg Noise Output              | 23.41 dB(A) |
| Efficiency Rating (ETA)       | TITANIUM    |
| Noise Rating (LAMBDA)         | Α           |

| POWER SPECIFICATIONS |       |      |    |       |      |      |  |  |
|----------------------|-------|------|----|-------|------|------|--|--|
| Rail                 |       | 3.3V | 5V | 12V   | 5VSB | -12V |  |  |
| Mary Daving          | Amps  | 30   | 30 | 133.3 | 3.5  | 0.8  |  |  |
| Max. Power           | Watts | 180  |    | 1600  | 17.5 | 9.6  |  |  |
| Total Max. Power (W) |       | 1600 |    |       |      |      |  |  |

| HOLD-UP TIME & POWER OK SIGNAL (230V) |       |  |  |
|---------------------------------------|-------|--|--|
| Hold-Up Time (ms)                     | 25.30 |  |  |
| AC Loss to PWR_OK Hold Up Time (ms)   | 23.20 |  |  |
| PWR_OK Inactive to DC Loss Delay (ms) | 2.10  |  |  |

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| Cable Count | Connector Count (Total) |                          |  |
|-------------|-------------------------|--------------------------|--|
|             | Connector Count (Total) | Gauge                    | In Cable Capacitors                        |
| 1           | 1                       | 16-22AWG                 | Yes  |
| 2           | 2                       | 16AWG                    | Yes  |
| 6           | 6                       | 16-18AWG                 | Yes  |
| 2           | 4                       | 16-18AWG                 | Yes  |
| 3           | 12                      | 18AWG                    | No   |
| 2           | 4                       | 18AWG                    | No   |
| 3           | 9                       | 18AWG                    | No   |
| 2           | 2                       | 20AWG                    | No   |
| 1           | 1                       | 24-28AWG                 | No   |
| 1           | 1                       | 14AWG                    | No   |
|             | 2<br>3<br>2<br>1        | 2 4<br>3 9<br>2 2<br>1 1 | 2 4 18AWG 3 9 18AWG 2 2 20AWG 1 1 24-28AWG |

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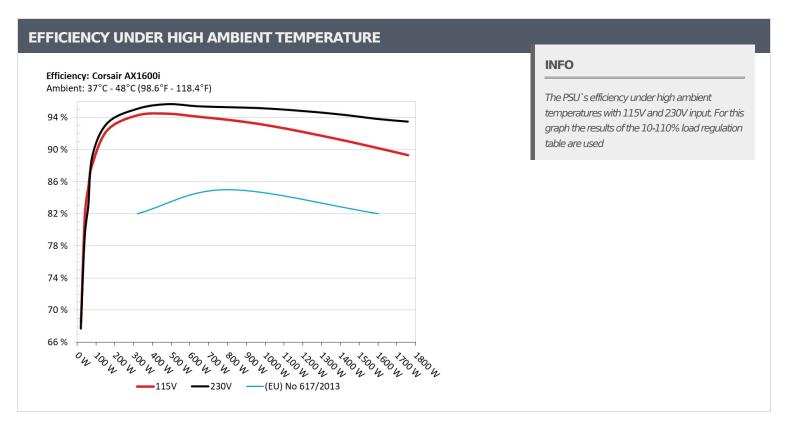
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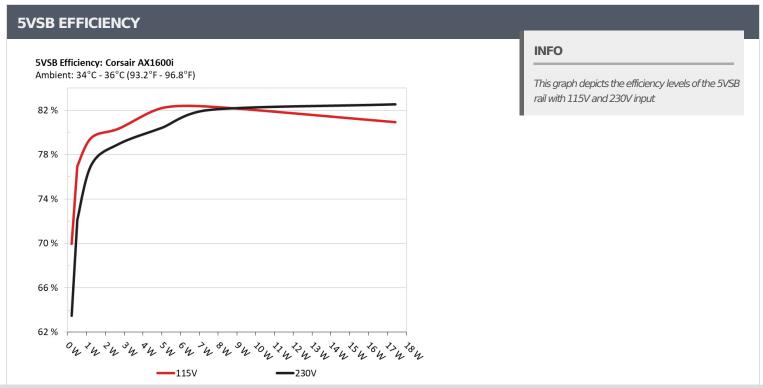
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| 5VSB EFFI | CIENCY -115V (ERF | P LOT 3/6 & CEC) |            |             |
|-----------|-------------------|------------------|------------|-------------|
| Test #    | 5VSB              | DC/AC (Watts)    | Efficiency | PF/AC Volts |
| 1         | 0.042A            | 0.212            | CO 0C70/   | 0.018       |
| 1         | 5.029V            | 0.303            | 69.967%    | 115.03V     |
| 2         | 0.088A            | 0.441            | 76.06207   | 0.034       |
| 2         | 5.029V            | 0.573            | 76.963%    | 115.03V     |
| 2         | 0.543A            | 2.724            | 00.3540/   | 0.187       |
| 3         | 5.021V            | 3.390            | 80.354%    | 115.03V     |
| 4         | 1.002A            | 5.026            | 02.2050/   | 0.299       |
| 4         | 5.014V            | 6.114            | 82.205%    | 115.03V     |
| _         | 1.502A            | 7.521            | 00 2000/   | 0.384       |
| 5         | 5.007V            | 9.135            | 82.332%    | 115.03V     |
| 6         | 3.502A            |                  | 0.533      |             |
| 6         | 4.978V            | 21.538           | 80.931%    | 115.02V     |
|           |                   |                  |            |             |

| 5VSB EFFICIEI | NCY -230V (ERP | LOT 3/6 & CEC) |            |             |
|---------------|----------------|----------------|------------|-------------|
| Test #        | 5VSB           | DC/AC (Watts)  | Efficiency | PF/AC Volts |
| -             | 0.042A         | 0.212          | 62.4720/   | 0.006       |
| 1             | 5.030V         | 0.334          | 63.473%    | 230.14V     |
| •             | 0.087A         | 0.440          | 70.1010/   | 0.011       |
| 2             | 5.029V         | 0.610          | 72.131%    | 230.14V     |
| _             | 0.542A         | 2.724          |            | 0.061       |
| 3             | 5.022V         | 3.449          | 78.979%    | 230.13V     |
|               | 1.002A         | 5.027          | 00.1170/   | 0.109       |
| 4             | 5.015V         | 6.249          | 80.445%    | 230.13V     |
| _             | 1.502A         | 7.522          | 00.0100/   | 0.154       |
| 5             | 5.008V         | 9.168          | 82.046%    | 230.13V     |
| 6             | 3.502A         | 17.433         |            | 0.298       |
| 6             | 4.978V         | 21.117         | 82.554%    | 230.13V     |

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# 115V

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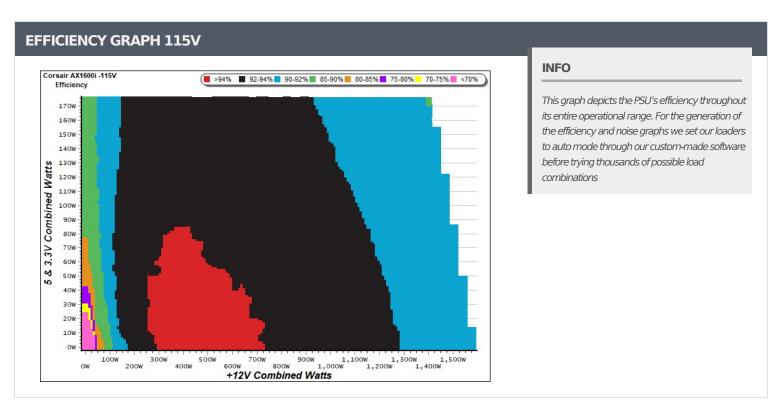
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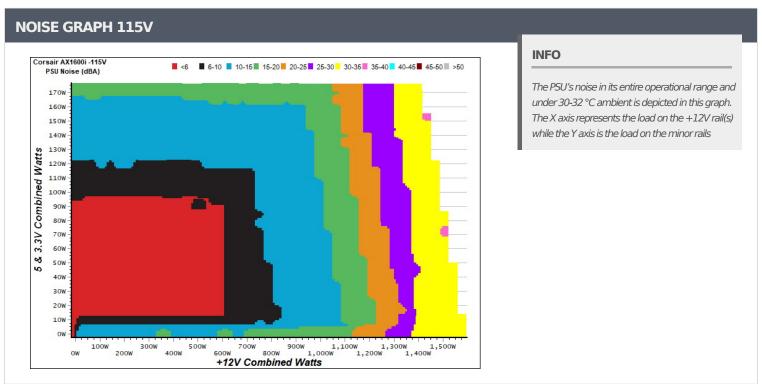
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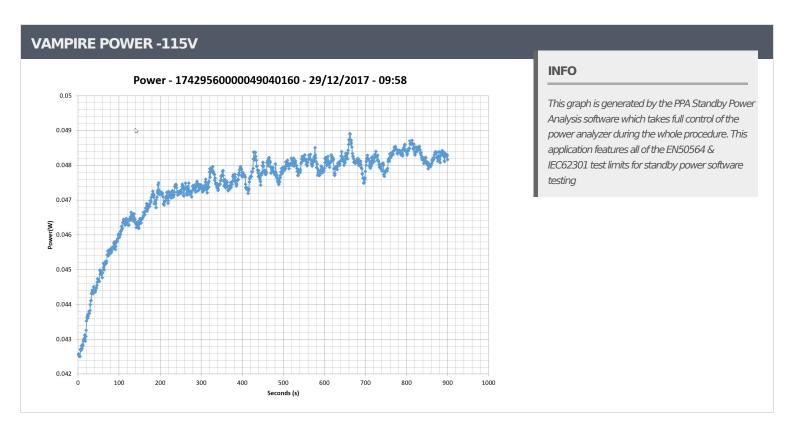
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| Test # | 12V      | 5V      | 3.3V    | 5VSB   | DC/AC<br>(Watts) | Efficiency | Fan<br>Speed<br>(RPM) | PSU Noise<br>(dB[A]) | Temps<br>(In/Out) | PF/AC<br>Volts |
|--------|----------|---------|---------|--------|------------------|------------|-----------------------|----------------------|-------------------|----------------|
| _      | 11.496A  | 2.003A  | 1.994A  | 1.004A | 159.852          | 02.4200/   | _                     |                      | 44.55°C           | 0.958          |
| 1      | 12.028V  | 4.990V  | 3.304V  | 4.975V | 172.947          | 92.428%    | 0                     | <6.0                 | 37.86°C           | 115.04\        |
| 2      | 24.022A  | 3.000A  | 2.997A  | 1.206A | 319.769          | 04.2650/   | 0                     | -00                  | 45.06°C           | 0.989          |
| 2      | 12.027V  | 4.988V  | 3.302V  | 4.972V | 339.222          | 94.265%    | 0                     | <6.0                 | 38.14°C           | 115.06         |
| 2      | 36.896A  | 3.507A  | 3.512A  | 1.406A | 479.772          | 04.4740/   | 0                     | .00                  | 45.56°C           | 0.995          |
| 3      | 12.026V  | 4.986V  | 3.300V  | 4.968V | 507.834          | 94.474%    | 0                     | <6.0                 | 38.54°C           | 115.06         |
| 4      | 49.764A  | 4.013A  | 3.999A  | 1.611A | 639.603          | 94.101% 0  | 0                     |                      | 46.54°C           | 0.997          |
| 4      | 12.025V  | 4.984V  | 3.299V  | 4.964V | 679.699          |            |                       | <6.0                 | 39.21°C           | 115.07         |
| _      | 62.293A  | 5.011A  | 5.001A  | 1.811A | 799.395          | - 02.7169/ | F.C.1                 | 0.5                  | 39.84°C           | 0.998          |
| 5      | 12.023V  | 4.983V  | 3.298V  | 4.960V | 852.999          | 93.716%    | 561                   | 8.5                  | 47.45°C           | 115.06         |
| C      | 74.835A  | 6.024A  | 6.008A  | 2.016A | 959.371          | - 02 2200/ | 220% 654              | 654 13.3             | 40.95°C           | 0.998          |
| 6      | 12.021V  | 4.980V  | 3.294V  | 4.955V | 1029.143         | 93.220%    |                       |                      | 48.74°C           | 115.07         |
| 7      | 87.372A  | 7.026A  | 7.012A  | 2.220A | 1119.272         | 02.5700/   | 720                   | 141                  | 42.12°C           | 0.998          |
| 7      | 12.020V  | 4.978V  | 3.294V  | 4.950V | 1209.115         | 92.570%    | 720                   | 14.1                 | 50.11°C           | 115.06         |
| 0      | 99.920A  | 8.042A  | 8.019A  | 2.425A | 1279.331         | 01.0100/   |                       | 21.1                 | 43.91°C           | 0.998          |
| 8      | 12.019V  | 4.975V  | 3.291V  | 4.946V | 1393.312         | 91.819%    | 1128                  | 31.1                 | 52.20°C           | 115.07         |
| 0      | 112.905A | 8.545A  | 8.542A  | 2.425A | 1439.369         | 01.0240/   | 1.407                 | 27.0                 | 44.98°C           | 0.998          |
| 9      | 12.017V  | 4.974V  | 3.289V  | 4.945V | 1581.140         | 91.034%    | 1497                  | 37.8                 | 53.48°C           | 115.06         |
| 10     | 125.427A | 9.061A  | 9.037A  | 3.551A | 1599.243         | 00.1050/   | 1012                  | 45.0                 | 46.48°C           | 0.998          |
| 10     | 12.015V  | 4.971V  | 3.287V  | 4.926V | 1773.297         | 90.185%    | 1913                  | 45.8                 | 55.33°C           | 115.07         |
| 11     | 138.752A | 9.064A  | 9.041A  | 3.553A | 1759.191         | 00.2110/   | 1005                  | 45.4                 | 47.91°C           | 0.996          |
| 11     | 12.014V  | 4.969V  | 3.284V  | 4.924V | 1969.742         | 89.311%    | 1925                  | 45.4                 | 56.97°C           | 115.06         |
| Cl 1   | 0.098A   | 22.031A | 19.997A | 0.005A | 177.831          | 00.5520/   | OFC                   | 21.5                 | 44.32°C           | 0.970          |
| CL1    | 12.024V  | 5.001V  | 3.323V  | 5.024V | 200.819          | 88.553%    | 856                   | 21.5                 | 47.38°C           | 115.09         |
| CLO    | 133.267A | 1.000A  | 1.003A  | 1.002A | 1614.701         | 00 2270/   | 1624                  | 40.1                 | 45.69°C           | 0.998          |
| CL2    | 12.017V  | 4.972V  | 3.282V  | 4.958V | 1787.626         | 90.327%    | 1624                  | 40.1                 | 50.07°C           | 115.08\        |

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| 20-80W LOAD TESTS 115V |         |        |        |        |                  |            |                    |                      |             |
|------------------------|---------|--------|--------|--------|------------------|------------|--------------------|----------------------|-------------|
| Test#                  | 12V     | 5V     | 3.3V   | 5VSB   | DC/AC<br>(Watts) | Efficiency | Fan Speed<br>(RPM) | PSU Noise<br>(dB[A]) | PF/AC Volts |
| -                      | 1.214A  | 0.500A | 0.482A | 0.202A | 19.696           | 68.463%    | 0                  | <6.0                 | 0.883       |
| 1                      | 12.028V | 4.990V | 3.302V | 4.986V | 28.769           |            |                    |                      | 115.04V     |
| 2                      | 2.457A  | 0.996A | 0.997A | 0.401A | 39.814           | 81.695%    | 0                  | <6.0                 | 0.952       |
| 2                      | 12.028V | 4.990V | 3.303V | 4.983V | 48.735           |            |                    |                      | 115.05V     |
| 2                      | 3.697A  | 1.497A | 1.509A | 0.601A | 59.917           | 85.519%    | 0                  | <6.0                 | 0.932       |
| 3                      | 12.028V | 4.990V | 3.304V | 4.982V | 70.063           |            |                    |                      | 115.04V     |
| 4                      | 4.927A  | 2.003A | 1.994A | 0.801A | 79.837           | 88.182%    | 0                  | <6.0                 | 0.928       |
| 4                      | 12.028V | 4.990V | 3.305V | 4.980V | 90.537           |            |                    |                      | 115.03V     |

| RIPPLE MEASUREM | IENTS 115V |        |        |        |           |
|-----------------|------------|--------|--------|--------|-----------|
| Test            | 12V        | 5V     | 3.3V   | 5VSB   | Pass/Fail |
| 10% Load        | 5.6 mV     | 4.3 mV | 5.9 mV | 3.0 mV | Pass      |
| 20% Load        | 6.6 mV     | 4.2 mV | 6.2 mV | 2.7 mV | Pass      |
| 30% Load        | 8.0 mV     | 4.4 mV | 6.7 mV | 2.9 mV | Pass      |
| 40% Load        | 8.3 mV     | 4.3 mV | 7.1 mV | 2.9 mV | Pass      |
| 50% Load        | 9.4 mV     | 4.5 mV | 6.1 mV | 3.1 mV | Pass      |
| 60% Load        | 9.0 mV     | 4.6 mV | 6.1 mV | 3.1 mV | Pass      |
| 70% Load        | 8.5 mV     | 4.7 mV | 6.7 mV | 3.2 mV | Pass      |
| 80% Load        | 8.9 mV     | 5.4 mV | 7.5 mV | 3.5 mV | Pass      |
| 90% Load        | 8.9 mV     | 5.0 mV | 6.1 mV | 3.3 mV | Pass      |
| 100% Load       | 9.9 mV     | 5.6 mV | 6.6 mV | 3.2 mV | Pass      |
| 110% Load       | 10.4 mV    | 5.6 mV | 8.3 mV | 3.4 mV | Pass      |
| Crossload 1     | 5.7 mV     | 6.1 mV | 6.2 mV | 2.9 mV | Pass      |
| Crossload 2     | 9.4 mV     | 4.6 mV | 5.9 mV | 2.8 mV | Pass      |

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## 230V

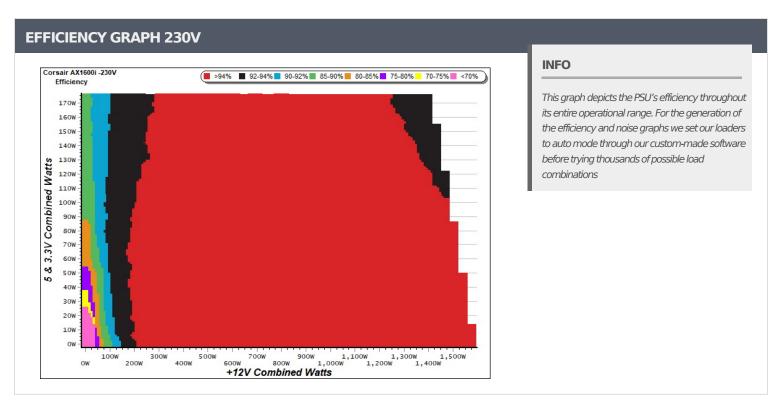
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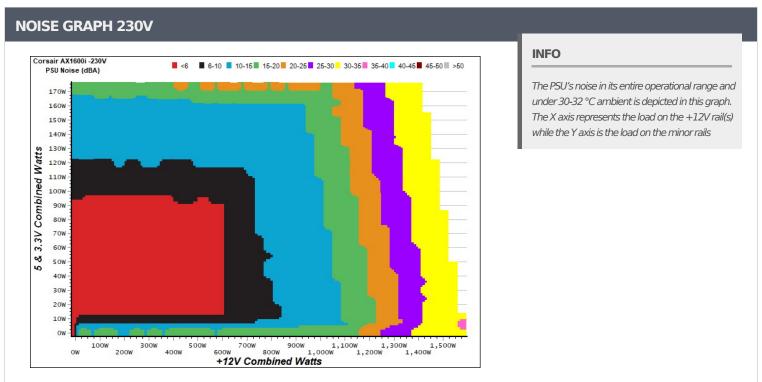
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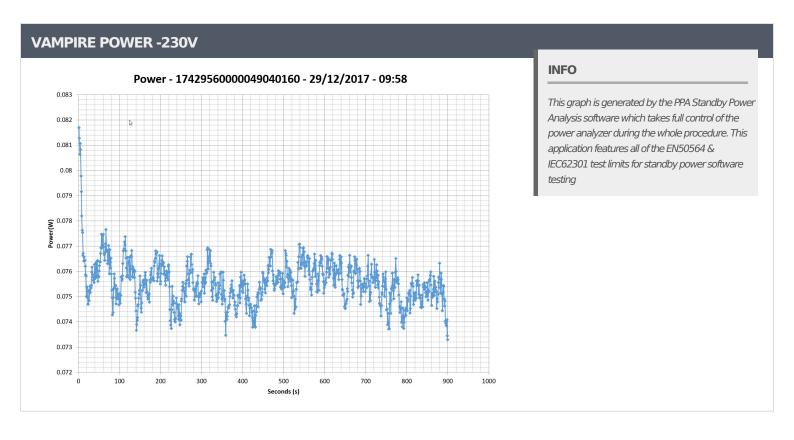
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|        |          |         |         |        | DC/AC    |            | Fan            | PSU Noise | Temps    | PF/AC   |
|--------|----------|---------|---------|--------|----------|------------|----------------|-----------|----------|---------|
| Test # | 12V      | 5V      | 3.3V    | 5VSB   | (Watts)  | Efficiency | Speed<br>(RPM) | (dB[A])   | (In/Out) | Volts   |
| 1      | 11.493A  | 2.005A  | 1.994A  | 1.001A | 159.841  | 93.313%    | 0              | <6.0      | 47.44°C  | 0.962   |
|        | 12.029V  | 4.994V  | 3.307V  | 4.980V | 171.295  | 93.313%    |                |           | 38.28°C  | 230.23\ |
| 2      | 24.018A  | 3.002A  | 2.993A  | 1.206A | 319.762  | 95.111%    | 0              | .00       | 48.27°C  | 0.985   |
| 2      | 12.028V  | 4.991V  | 3.305V  | 4.975V | 336.198  | 95.111%    | 0              | <6.0      | 38.61°C  | 230.24  |
| 3      | 36.890A  | 3.508A  | 3.509A  | 1.405A | 479.750  | 95.693%    | 0              | <6.0      | 48.54°C  | 0.994   |
|        | 12.027V  | 4.989V  | 3.303V  | 4.970V | 501.345  |            |                |           | 38.76°C  | 230.23\ |
| 4      | 49.763A  | 4.012A  | 3.997A  | 1.611A | 639.554  | 95.429%    | 478            | 8.1       | 39.93°C  | 0.993   |
|        | 12.024V  | 4.988V  | 3.300V  | 4.967V | 670.189  |            |                |           | 44.01°C  | 230.23  |
| 5      | 62.293A  | 5.011A  | 5.000A  | 1.811A | 799.335  | OF 21 40/  | 577            | 10.8      | 40.09°C  | 0.997   |
|        | 12.022V  | 4.984V  | 3.298V  | 4.961V | 838.635  | 95.314%    |                |           | 44.24°C  | 230.25  |
| 6      | 74.836A  | 6.025A  | 6.008A  | 2.016A | 959.327  | 95.211%    | 654            | 13.3      | 40.43°C  | 0.998   |
|        | 12.020V  | 4.981V  | 3.295V  | 4.956V | 1007.585 |            |                |           | 44.73°C  | 230.24  |
| 7      | 87.364A  | 7.027A  | 7.011A  | 2.220A | 1119.093 | 94.987%    | 724            | 14.1      | 41.16°C  | 0.997   |
|        | 12.019V  | 4.978V  | 3.294V  | 4.950V | 1178.158 |            |                |           | 45.17°C  | 230.27  |
| 0      | 99.919A  | 8.041A  | 8.021A  | 2.425A | 1279.232 | 94.686%    | 1081           | 29.1      | 42.91°C  | 0.998   |
| 8      | 12.018V  | 4.976V  | 3.291V  | 4.947V | 1351.031 |            |                |           | 46.41°C  | 230.26  |
| •      | 112.907A | 8.546A  | 8.540A  | 2.426A | 1439.274 | 94.307%    | 1497           | 37.8      | 44.21°C  | 0.998   |
| 9      | 12.016V  | 4.973V  | 3.289V  | 4.945V | 1526.161 |            |                |           | 47.55°C  | 230.26  |
| 10     | 125.417A | 9.063A  | 9.034A  | 3.551A | 1599.111 | 93.842%    | 1884           | 45.8      | 45.93°C  | 0.999   |
| 10     | 12.015V  | 4.970V  | 3.287V  | 4.925V | 1704.054 |            |                |           | 49.01°C  | 230.26  |
| 11     | 138.738A | 9.065A  | 9.044A  | 3.553A | 1759.026 | 93.514%    | 1925           | 45.4      | 47.08°C  | 0.999   |
| 11     | 12.014V  | 4.968V  | 3.284V  | 4.923V | 1881.023 |            |                |           | 50.39°C  | 230.27  |
| CL1    | 0.097A   | 22.032A | 19.998A | 0.004A | 177.843  | 89.433%    | 847            | 21.5      | 45.19°C  | 0.967   |
|        | 12.024V  | 5.001V  | 3.324V  | 5.025V | 198.856  |            |                |           | 48.27°C  | 230.29  |
| CI 2   | 133.251A | 1.003A  | 1.003A  | 1.002A | 1614.523 | 94.052%    | 1767           | 42.5      | 45.37°C  | 0.999   |
| CL2    | 12.017V  | 4.972V  | 3.282V  | 4.957V | 1716.632 |            |                |           | 48.44°C  | 230.29\ |

All data and graphs included in this test report can be used by any individual on the following conditions:

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<sup>&</sup>gt; It should be mentioned that the test results are provided by Cybenetics

<sup>&</sup>gt; The link to the original test results document should be provided in any case



Anex

Corsair AX1600i (#2)

| 20-80W LOAD TESTS 230V |         |        |        |        |                  |            |                    |                      |             |
|------------------------|---------|--------|--------|--------|------------------|------------|--------------------|----------------------|-------------|
| Test#                  | 12V     | 5V     | 3.3V   | 5VSB   | DC/AC<br>(Watts) | Efficiency | Fan Speed<br>(RPM) | PSU Noise<br>(dB[A]) | PF/AC Volts |
| -                      | 1.213A  | 0.501A | 0.482A | 0.201A | 19.694           | 67.696%    | 0                  | <6.0                 | 0.567       |
| 1                      | 12.030V | 4.998V | 3.307V | 4.992V | 29.092           |            |                    |                      | 230.24V     |
| 2                      | 2.453A  | 1.002A | 0.996A | 0.402A | 39.817           | 78.936%    | 0                  | <6.0                 | 0.754       |
| 2                      | 12.030V | 4.997V | 3.308V | 4.988V | 50.442           |            |                    |                      | 230.25V     |
| 2                      | 3.694A  | 1.497A | 1.509A | 0.601A | 59.907           | 83.116%    | 0                  | <6.0                 | 0.857       |
| 3                      | 12.030V | 4.996V | 3.308V | 4.986V | 72.076           |            |                    |                      | 230.24V     |
| 4                      | 4.924A  | 2.006A | 1.993A | 0.801A | 79.838           | 89.109%    | 0                  | <6.0                 | 0.900       |
| 4                      | 12.029V | 4.996V | 3.308V | 4.984V | 89.596           |            |                    |                      | 230.23V     |

#### **RIPPLE MEASUREMENTS 230V** 5V 3.3V **5VSB** Pass/Fail Test **12V** 10% Load 5.7 mV 3.9 mV 5.6 mV 2.7 mV Pass 20% Load 6.8 mV 4.0 mV 5.5 mV 2.7 mV Pass 30% Load 7.6 mV 4.1 mV 5.6 mV 2.8 mV Pass 8.7 mV 4.2 mV 5.4 mV 2.9 mV 40% Load Pass 50% Load 9.6 mV 4.3 mV 5.9 mV 3.0 mV Pass 60% Load 8.8 mV 4.5 mV 5.8 mV 3.0 mV Pass 70% Load 8.4 mV 5.1 mV 6.3 mV 3.3 mV Pass 80% Load 9.0 mV 5.0 mV 6.7 mV 3.3 mV Pass 90% Load 9.2 mV 4.6 mV 5.4 mV 3.0 mV Pass 100% Load 9.7 mV 5.2 mV 5.7 mV 3.3 mV Pass 110% Load 10.4 mV 5.4 mV 7.2 mV 3.2 mV **Pass** Crossload 1 5.4 mV 6.2 mV 5.3 mV 2.7 mV Pass Crossload 2 9.6 mV 4.5 mV 5.3 mV 2.7 mV Pass

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Anex

Corsair AX1600i (#2)













**Aristeidis Bitziopoulos**Lab Director

#### **CERTIFICATIONS 230V**





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