

## Anex

## Seasonic Focus SGX-500W (#2)

Lab ID#: SS50001840  
Receipt Date: Feb 27, 2021  
Test Date: Apr 26, 2021

Report: 21PS1840A  
Report Date: Apr 26, 2021

| DUT INFORMATION    |                  |
|--------------------|------------------|
| Brand              | Seasonic         |
| Manufacturer (OEM) | Seasonic         |
| Series             | Focus Gold       |
| Model Number       | SSR-500SGX       |
| Serial Number      | R2008AA164510249 |
| DUT Notes          |                  |

| DUT SPECIFICATIONS     |  |
|------------------------|--|
| Rated Voltage (Vrms)   | 100-240                                      |
| Rated Current (Arms)   | 6-3  |
| Rated Frequency (Hz)   | 50-60  |
| Rated Power (W)        | 500  |
| Type                   | SFX-L  |
| Cooling                | 120mm Fluid Dynamic Bearing Fan (S1201512HB) |
| Semi-Passive Operation | ✓  |
| Cable Design           | Fully Modular                                |

| TEST EQUIPMENT     |   |
|--------------------|---|
| Electronic Loads   | Chroma 63601-5 x4<br>Chroma 63600-2 x2<br>63640-80-80 x20<br>63610-80-20 x2 |
| AC Sources         | Chroma 6530, Keysight AC6804B   |
| Power Analyzers    | N4L PPA1530 x2  |
| Sound Analyzer     | Bruel & Kjaer 2270 G4   |
| Microphone         | Bruel & Kjaer Type 4955-A   |
| Data Loggers       | Picoscope TC-08 x2, Labjack U3-HV x2  |
| Tachometer         | UNI-T UT372 x2  |
| Digital Multimeter | Keysight U1273AX, Fluke 289, Keithley 2015 - THD                            |
| UPS                | CyberPower OLS3000E 3kVA x2   |
| Transformer        | 3kVA 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                        | 88.959%     |
| Efficiency With 10W (≤500W) or 2% (>500W) | 63.323      |
| Average Efficiency 5VSB                   | 77.374%     |
| Standby Power Consumption (W)             | 0.0434712   |
| Average PF                                | 0.977       |
| Avg Noise Output                          | 25.45 dB(A) |
| Efficiency Rating (ETA)                   | GOLD        |
| Noise Rating (LAMBDA)                     | A-          |

### 230V

|                               |             |
|-------------------------------|-------------|
| Average Efficiency            | 90.836%     |
| Average Efficiency 5VSB       | 76.925%     |
| Standby Power Consumption (W) | 0.0687282   |
| Average PF                    | 0.916       |
| Avg Noise Output              | 25.53 dB(A) |
| Efficiency Rating (ETA)       | GOLD        |
| Noise Rating (LAMBDA)         | A-          |

### POWER SPECIFICATIONS

| Rail                 |       | 3.3V | 5V | 12V | 5VSB | -12V |
|----------------------|-------|------|----|-----|------|------|
| Max. Power           | Amps  | 20   | 20 | 41  | 3    | 0.3  |
|                      | Watts | 100  |    | 492 | 15   | 3.6  |
| Total Max. Power (W) |       | 500  |    |     |      |      |

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

|                                       |      |
|---------------------------------------|------|
| Hold-Up Time (ms)                     | 25.6 |
| AC Loss to PWR_OK Hold Up Time (ms)   | 21.6 |
| PWR_OK Inactive to DC Loss Delay (ms) | 4    |

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### CABLES AND CONNECTORS

#### Modular Cables

| Description                          | Cable Count | Connector Count (Total) | Gauge | In Cable Capacitors |
|--------------------------------------|-------------|-------------------------|-------|---------------------|
| ATX connector 20+4 pin (360mm)       | 1           | 1                       | 18AWG | No                  |
| 4+4 pin EPS12V (410mm)               | 1           | 1                       | 18AWG | No                  |
| 6+2 pin PCIe (410mm+110mm)           | 1           | 2                       | 18AWG | No                  |
| SATA (310mm+200mm+100mm)             | 1           | 3                       | 18AWG | No                  |
| 4-pin Molex (300mm+200mm+200mm)      | 1           | 3                       | 18AWG | No                  |
| AC Power Cord (1400mm) - C13 coupler | 1           | 1                       | 18AWG | -                   |

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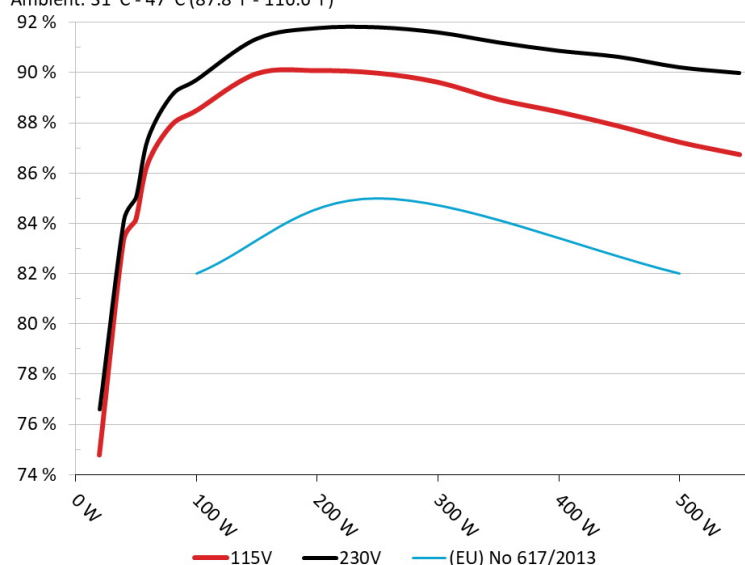
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### EFFICIENCY UNDER HIGH AMBIENT TEMPERATURE

#### Efficiency: Seasonic Focus SGX-500

Ambient: 31°C - 47°C (87.8°F - 116.6°F)



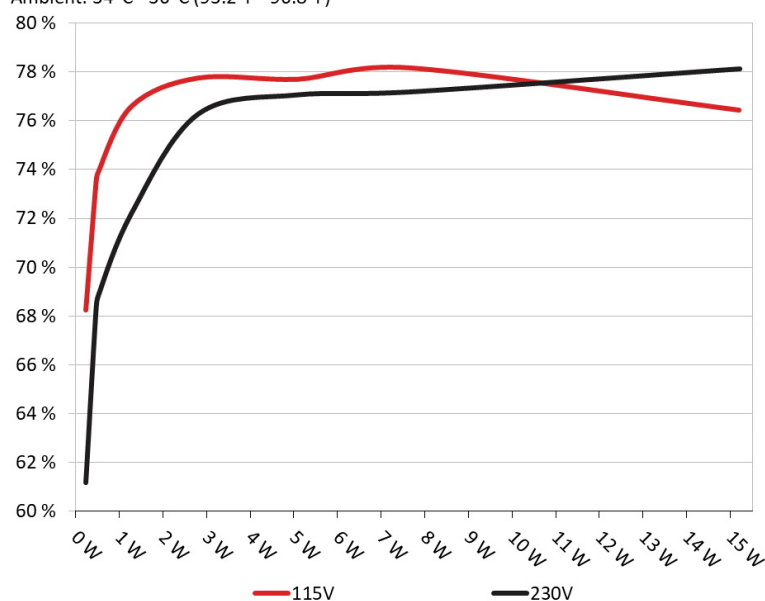
#### INFO

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: Seasonic Focus SGX-500

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

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## Seasonic Focus SGX-500W (#2)

### 5VSB EFFICIENCY -115V (ERP LOT 3/6 & CEC)

| Test # | 5VSB   | DC/AC (Watts) | Efficiency | PF/AC Volts |
|--------|--------|---------------|------------|-------------|
| 1      | 0.045A | 0.230         | 68.249%    | 0.053       |
|        | 5.123V | 0.337         |            | 115.14V     |
| 2      | 0.090A | 0.461         | 73.408%    | 0.097       |
|        | 5.122V | 0.628         |            | 115.14V     |
| 3      | 0.550A | 2.812         | 77.744%    | 0.332       |
|        | 5.114V | 3.617         |            | 115.14V     |
| 4      | 1.000A | 5.106         | 77.693%    | 0.402       |
|        | 5.106V | 6.572         |            | 115.15V     |
| 5      | 1.500A | 7.647         | 78.158%    | 0.438       |
|        | 5.098V | 9.784         |            | 115.15V     |
| 6      | 2.999A | 15.204        | 76.429%    | 0.489       |
|        | 5.069V | 19.893        |            | 115.15V     |

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

| Test # | 5VSB   | DC/AC (Watts) | Efficiency | PF/AC Volts |
|--------|--------|---------------|------------|-------------|
| 1      | 0.045A | 0.230         | 61.170%    | 0.019       |
|        | 5.122V | 0.376         |            | 230.30V     |
| 2      | 0.090A | 0.461         | 68.195%    | 0.033       |
|        | 5.121V | 0.676         |            | 230.30V     |
| 3      | 0.550A | 2.812         | 76.289%    | 0.159       |
|        | 5.113V | 3.686         |            | 230.30V     |
| 4      | 1.000A | 5.105         | 77.068%    | 0.240       |
|        | 5.106V | 6.624         |            | 230.31V     |
| 5      | 1.500A | 7.646         | 77.186%    | 0.296       |
|        | 5.097V | 9.906         |            | 230.31V     |
| 6      | 2.999A | 15.215        | 78.130%    | 0.371       |
|        | 5.073V | 19.474        |            | 230.31V     |

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**Anex**

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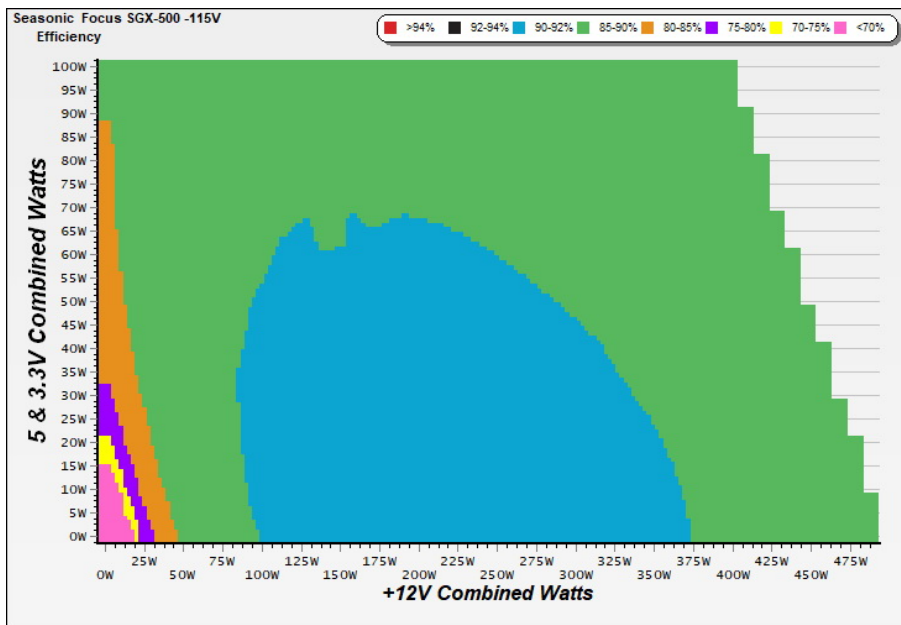
# 115V

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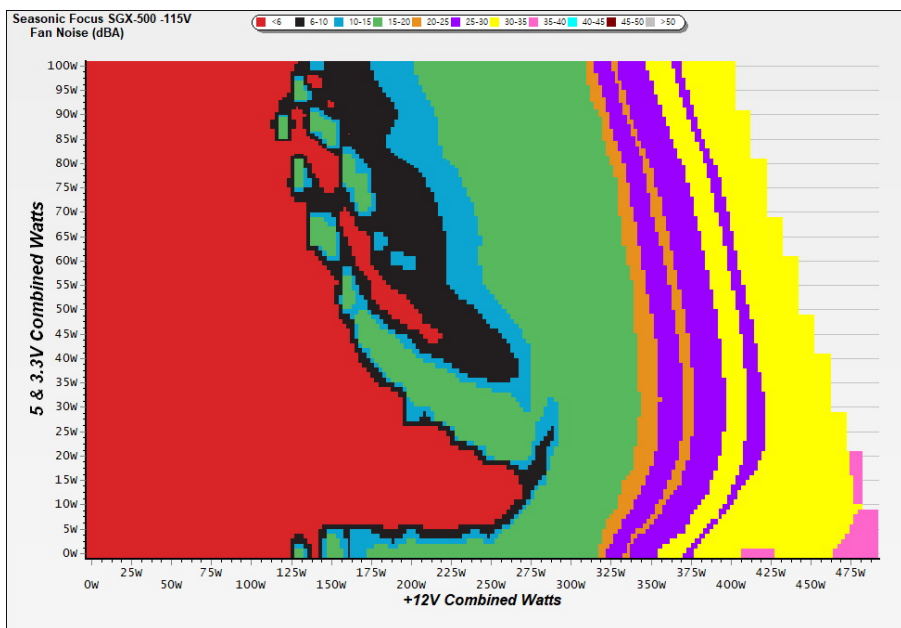
### EFFICIENCY GRAPH 115V



#### 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

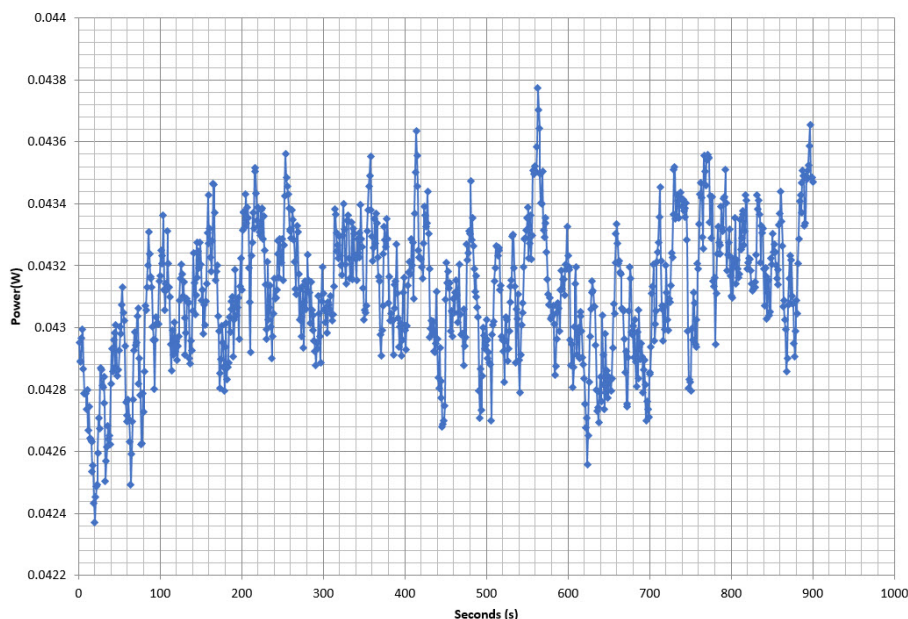
The PSU's noise in its entire operational range and under 30-32 °C ambient is depicted in this graph. The X axis represents the load on the +12V rail(s) while the Y axis is the load on the minor rails

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### VAMPIRE POWER -115V

Power - R2008AA164510249 - 26/04/2021 - 11:09



#### 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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## Anex

## Seasonic Focus SGX-500W (#2)

| 10-110% LOAD TESTS 115V |         |         |         |        |                  |            |                    |                      |                   |                |
|-------------------------|---------|---------|---------|--------|------------------|------------|--------------------|----------------------|-------------------|----------------|
| Test #                  | 12V     | 5V      | 3.3V    | 5VSB   | DC/AC<br>(Watts) | Efficiency | Fan Speed<br>(RPM) | PSU Noise<br>(dB[A]) | Temps<br>(In/Out) | PF/AC<br>Volts |
| 1                       | 2.360A  | 1.983A  | 1.985A  | 0.980A | 49.986           | 84.133%    | 0                  | <6.0                 | 36.38°C           | 0.930          |
|                         | 12.029V | 5.042V  | 3.325V  | 5.101V | 59.413           |            |                    |                      | 40.77°C           | 115.14V        |
| 2                       | 10.397A | 2.722A  | 1.502A  | 1.315A | 100.418          | 88.503%    | 0                  | <6.0                 | 26.71°C           | 0.629          |
|                         | 12.018V | 5.041V  | 3.326V  | 5.107V | 113.463          |            |                    |                      | 31.48°C           | 115.14V        |
| 3                       | 9.468A  | 3.473A  | 3.479A  | 1.377A | 149.937          | 89.966%    | 0                  | <6.0                 | 36.58°C           | 0.983          |
|                         | 12.031V | 5.039V  | 3.320V  | 5.084V | 166.660          |            |                    |                      | 41.92°C           | 115.13V        |
| 4                       | 13.198A | 3.973A  | 3.978A  | 1.576A | 199.975          | 90.091%    | 850                | 17.3                 | 42.40°C           | 0.985          |
|                         | 12.031V | 5.035V  | 3.318V  | 5.075V | 221.970          |            |                    |                      | 48.96°C           | 115.13V        |
| 5                       | 16.584A | 4.968A  | 4.976A  | 1.776A | 249.997          | 89.989%    | 952                | 20.1                 | 42.63°C           | 0.986          |
|                         | 12.031V | 5.032V  | 3.316V  | 5.066V | 277.808          |            |                    |                      | 49.47°C           | 115.13V        |
| 6                       | 19.960A | 5.964A  | 5.976A  | 1.977A | 299.941          | 89.626%    | 1129               | 27.6                 | 43.35°C           | 0.985          |
|                         | 12.031V | 5.031V  | 3.313V  | 5.057V | 334.658          |            |                    |                      | 50.33°C           | 115.14V        |
| 7                       | 23.351A | 6.963A  | 7.098A  | 2.179A | 350.033          | 88.941%    | 1500               | 36.2                 | 43.49°C           | 0.985          |
|                         | 12.031V | 5.028V  | 3.256V  | 5.046V | 393.556          |            |                    |                      | 51.04°C           | 115.14V        |
| 8                       | 26.722A | 7.962A  | 7.987A  | 2.382A | 399.867          | 88.443%    | 1642               | 40.5                 | 44.46°C           | 0.985          |
|                         | 12.031V | 5.026V  | 3.304V  | 5.036V | 452.120          |            |                    |                      | 52.74°C           | 115.14V        |
| 9                       | 30.515A | 8.458A  | 8.478A  | 2.385A | 449.602          | 87.879%    | 1909               | 43.2                 | 44.77°C           | 0.985          |
|                         | 12.031V | 5.024V  | 3.302V  | 5.030V | 511.616          |            |                    |                      | 53.55°C           | 115.15V        |
| 10                      | 34.075A | 8.960A  | 9.000A  | 2.990A | 499.633          | 87.243%    | 2052               | 44.4                 | 45.66°C           | 0.985          |
|                         | 12.031V | 5.023V  | 3.299V  | 5.015V | 572.690          |            |                    |                      | 55.80°C           | 115.15V        |
| 11                      | 38.229A | 8.961A  | 9.003A  | 2.994A | 549.641          | 86.745%    | 2108               | 44.8                 | 46.46°C           | 0.986          |
|                         | 12.032V | 5.022V  | 3.298V  | 5.010V | 633.631          |            |                    |                      | 57.91°C           | 115.14V        |
| CL1                     | 0.116A  | 11.999A | 11.998A | 0.000A | 101.435          | 84.177%    | 1159               | 29.5                 | 46.47°C           | 0.975          |
|                         | 12.035V | 5.034V  | 3.303V  | 5.100V | 120.502          |            |                    |                      | 53.26°C           | 115.17V        |
| CL2                     | 40.996A | 1.000A  | 1.000A  | 1.000A | 506.721          | 88.176%    | 2104               | 44.6                 | 45.67°C           | 0.985          |
|                         | 12.034V | 5.032V  | 3.316V  | 5.057V | 574.672          |            |                    |                      | 57.56°C           | 115.15V        |

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## Seasonic Focus SGX-500W (#2)

### 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      | 1.233A  | 0.495A | 0.495A | 0.195A | 19.978           | 74.782%    | 0                  | <6.0                 | 0.762       |
|        | 12.024V | 5.046V | 3.331V | 5.118V | 26.715           |            |                    |                      | 115.14V     |
| 2      | 2.468A  | 0.991A | 0.991A | 0.391A | 39.967           | 83.332%    | 0                  | <6.0                 | 0.904       |
|        | 12.024V | 5.045V | 3.329V | 5.112V | 47.961           |            |                    |                      | 115.14V     |
| 3      | 3.705A  | 1.488A | 1.488A | 0.587A | 59.998           | 86.389%    | 0                  | <6.0                 | 0.947       |
|        | 12.026V | 5.041V | 3.326V | 5.107V | 69.451           |            |                    |                      | 115.14V     |
| 4      | 4.935A  | 1.984A | 1.985A | 0.784A | 79.950           | 87.935%    | 0                  | <6.0                 | 0.965       |
|        | 12.027V | 5.041V | 3.324V | 5.101V | 90.919           |            |                    |                      | 115.14V     |

### RIPPLE MEASUREMENTS 115V

| Test       | 12V     | 5V      | 3.3V    | 5VSB    | Pass/Fail |
|------------|---------|---------|---------|---------|-----------|
| 10% Load   | 10.10mV | 8.11mV  | 7.19mV  | 10.83mV | Pass      |
| 20% Load   | 5.52mV  | 7.18mV  | 6.23mV  | 7.55mV  | Pass      |
| 30% Load   | 13.72mV | 9.25mV  | 9.13mV  | 11.49mV | Pass      |
| 40% Load   | 14.27mV | 9.48mV  | 9.81mV  | 12.55mV | Pass      |
| 50% Load   | 15.84mV | 10.60mV | 10.56mV | 13.18mV | Pass      |
| 60% Load   | 15.94mV | 11.00mV | 11.67mV | 13.63mV | Pass      |
| 70% Load   | 17.54mV | 11.66mV | 12.68mV | 13.05mV | Pass      |
| 80% Load   | 18.90mV | 12.25mV | 14.37mV | 14.64mV | Pass      |
| 90% Load   | 20.27mV | 12.37mV | 14.75mV | 14.82mV | Pass      |
| 100% Load  | 30.28mV | 14.36mV | 15.78mV | 17.76mV | Pass      |
| 110% Load  | 31.25mV | 14.45mV | 16.64mV | 18.20mV | Pass      |
| Crossload1 | 19.99mV | 11.10mV | 15.82mV | 11.66mV | Pass      |
| Crossload2 | 29.03mV | 12.29mV | 11.17mV | 17.08mV | Pass      |

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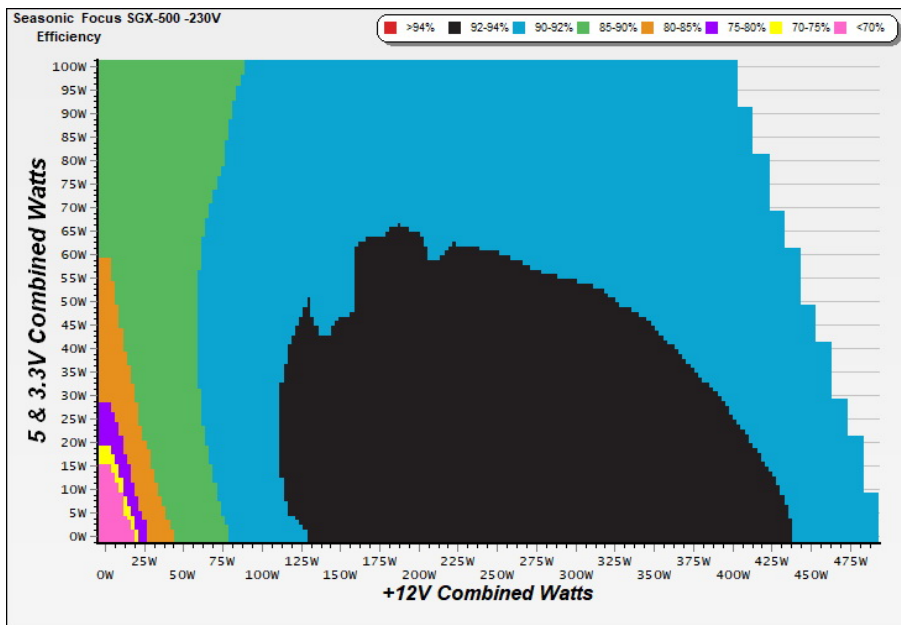
# 230V

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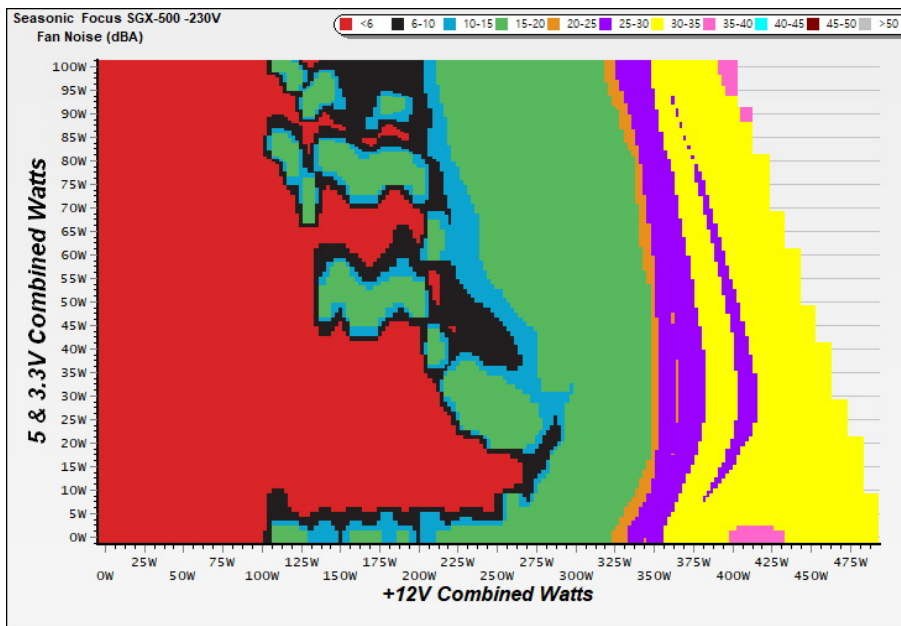
### EFFICIENCY GRAPH 230V



#### 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

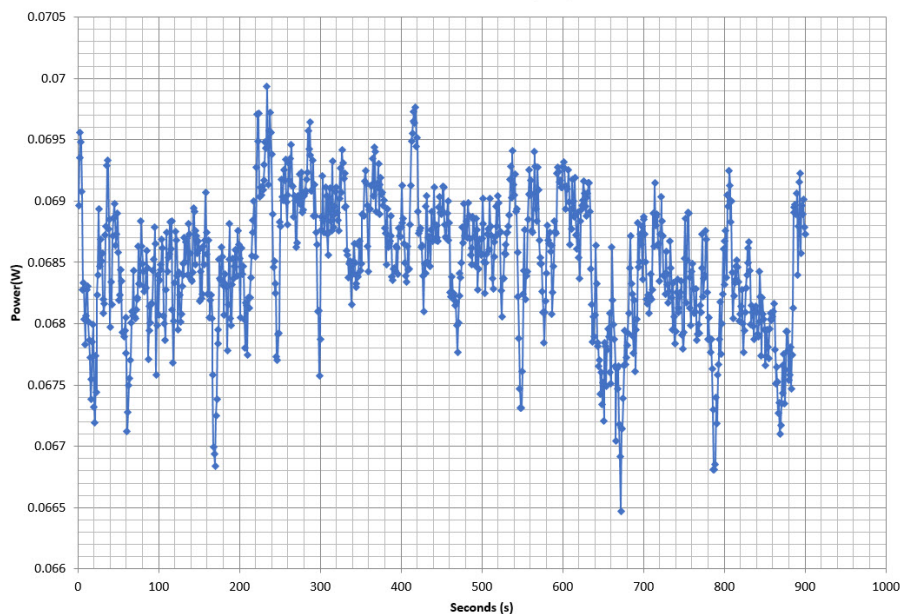
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### 10-110% LOAD TESTS 230V

| Test # | 12V     | 5V      | 3.3V    | 5VSB   | DC/AC<br>(Watts) | Efficiency | Fan Speed<br>(RPM) | PSU Noise<br>(dB[A]) | Temps<br>(In/Out) | PF/AC<br>Volts |
|--------|---------|---------|---------|--------|------------------|------------|--------------------|----------------------|-------------------|----------------|
| 1      | 2.360A  | 1.983A  | 1.986A  | 0.980A | 49.983           | 85.033%    | 0                  | <6.0                 | 38.52°C           | 0.664          |
|        | 12.028V | 5.042V  | 3.324V  | 5.100V | 58.781           |            |                    |                      | 42.96°C           | 230.27V        |
| 2      | 5.744A  | 2.976A  | 2.982A  | 1.178A | 99.991           | 89.717%    | 0                  | <6.0                 | 38.74°C           | 0.838          |
|        | 12.029V | 5.040V  | 3.320V  | 5.091V | 111.452          |            |                    |                      | 43.36°C           | 230.27V        |
| 3      | 9.468A  | 3.473A  | 3.481A  | 1.377A | 149.937          | 91.354%    | 0                  | <6.0                 | 39.43°C           | 0.903          |
|        | 12.031V | 5.039V  | 3.318V  | 5.083V | 164.127          |            |                    |                      | 44.54°C           | 230.27V        |
| 4      | 13.198A | 3.973A  | 3.981A  | 1.576A | 199.968          | 91.779%    | 597                | 7.8                  | 41.78°C           | 0.932          |
|        | 12.031V | 5.036V  | 3.316V  | 5.075V | 217.881          |            |                    |                      | 47.59°C           | 230.27V        |
| 5      | 16.584A | 4.969A  | 4.980A  | 1.776A | 249.992          | 91.811%    | 950                | 19.9                 | 42.65°C           | 0.947          |
|        | 12.030V | 5.032V  | 3.313V  | 5.066V | 272.290          |            |                    |                      | 49.26°C           | 230.27V        |
| 6      | 19.960A | 5.965A  | 5.982A  | 1.977A | 299.938          | 91.608%    | 1135               | 28.1                 | 43.45°C           | 0.956          |
|        | 12.031V | 5.031V  | 3.310V  | 5.057V | 327.414          |            |                    |                      | 50.54°C           | 230.27V        |
| 7      | 23.348A | 6.961A  | 6.985A  | 2.178A | 349.999          | 91.211%    | 1456               | 33.5                 | 43.85°C           | 0.962          |
|        | 12.031V | 5.029V  | 3.307V  | 5.048V | 383.724          |            |                    |                      | 51.85°C           | 230.27V        |
| 8      | 26.708A | 7.960A  | 7.987A  | 2.380A | 399.712          | 90.878%    | 1625               | 39.5                 | 43.91°C           | 0.966          |
|        | 12.031V | 5.027V  | 3.304V  | 5.039V | 439.835          |            |                    |                      | 52.54°C           | 230.27V        |
| 9      | 30.502A | 8.456A  | 8.476A  | 2.383A | 449.428          | 90.635%    | 1858               | 41.8                 | 44.64°C           | 0.969          |
|        | 12.031V | 5.025V  | 3.302V  | 5.034V | 495.865          |            |                    |                      | 54.26°C           | 230.27V        |
| 10     | 34.059A | 8.956A  | 8.998A  | 2.988A | 499.448          | 90.221%    | 2046               | 44.2                 | 44.65°C           | 0.971          |
|        | 12.032V | 5.024V  | 3.300V  | 5.019V | 553.582          |            |                    |                      | 55.56°C           | 230.27V        |
| 11     | 38.218A | 8.959A  | 9.001A  | 2.990A | 549.464          | 89.993%    | 2097               | 44.4                 | 46.19°C           | 0.973          |
|        | 12.032V | 5.022V  | 3.298V  | 5.014V | 610.563          |            |                    |                      | 57.97°C           | 230.27V        |
| CL1    | 0.115A  | 11.998A | 11.997A | 0.000A | 101.410          | 85.692%    | 935                | 19.2                 | 39.73°C           | 0.850          |
|        | 12.033V | 5.034V  | 3.304V  | 5.101V | 118.342          |            |                    |                      | 46.20°C           | 230.27V        |
| CL2    | 40.981A | 1.000A  | 1.000A  | 1.000A | 506.456          | 91.240%    | 1957               | 43.8                 | 43.18°C           | 0.971          |
|        | 12.032V | 5.031V  | 3.317V  | 5.060V | 555.082          |            |                    |                      | 53.55°C           | 230.27V        |

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## Anex

## Seasonic Focus SGX-500W (#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      | 1.233A  | 0.495A | 0.495A | 0.195A | 19.974           | 76.590%    | 0                  | <6.0                 | 0.448       |
|        | 12.028V | 5.047V | 3.330V | 5.117V | 26.079           |            |                    |                      | 230.28V     |
| 2      | 2.466A  | 0.991A | 0.991A | 0.391A | 39.963           | 84.118%    | 0                  | <6.0                 | 0.599       |
|        | 12.028V | 5.046V | 3.328V | 5.112V | 47.508           |            |                    |                      | 230.29V     |
| 3      | 3.704A  | 1.487A | 1.488A | 0.587A | 59.995           | 87.385%    | 0                  | <6.0                 | 0.710       |
|        | 12.028V | 5.042V | 3.325V | 5.106V | 68.656           |            |                    |                      | 230.28V     |
| 4      | 4.934A  | 1.984A | 1.986A | 0.784A | 79.947           | 89.122%    | 0                  | <6.0                 | 0.788       |
|        | 12.028V | 5.041V | 3.323V | 5.101V | 89.705           |            |                    |                      | 230.27V     |

### RIPPLE MEASUREMENTS 230V

| Test       | 12V     | 5V      | 3.3V    | 5VSB    | Pass/Fail |
|------------|---------|---------|---------|---------|-----------|
| 10% Load   | 14.74mV | 8.20mV  | 7.43mV  | 11.28mV | Pass      |
| 20% Load   | 18.54mV | 8.65mV  | 8.62mV  | 11.87mV | Pass      |
| 30% Load   | 19.19mV | 9.10mV  | 9.28mV  | 11.99mV | Pass      |
| 40% Load   | 20.22mV | 9.79mV  | 9.81mV  | 12.72mV | Pass      |
| 50% Load   | 21.80mV | 10.95mV | 10.82mV | 12.96mV | Pass      |
| 60% Load   | 23.77mV | 11.49mV | 12.01mV | 13.59mV | Pass      |
| 70% Load   | 25.47mV | 12.30mV | 12.84mV | 14.38mV | Pass      |
| 80% Load   | 27.23mV | 12.97mV | 15.45mV | 14.70mV | Pass      |
| 90% Load   | 28.90mV | 13.18mV | 15.82mV | 14.73mV | Pass      |
| 100% Load  | 32.14mV | 14.83mV | 17.40mV | 17.63mV | Pass      |
| 110% Load  | 32.42mV | 15.41mV | 17.49mV | 17.06mV | Pass      |
| Crossload1 | 19.99mV | 11.07mV | 16.97mV | 12.55mV | Pass      |
| Crossload2 | 30.40mV | 12.98mV | 11.97mV | 15.80mV | Pass      |

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## Anex

## Seasonic Focus SGX-500W (#2)



Top side



Power specifications label

## CERTIFICATIONS 115V




**Aristeidis Bitziopoulos**  
Lab Director

## CERTIFICATIONS 230V



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