

Anex

1st Player NGDP 850W

Lab ID#: FP85002355
Receipt Date: Jan 24, 2024
Test Date: Feb 14, 2024

Report: 24PS2355A

Report Date: Feb 20, 2024

| DUT INFORMATION | | | | |
|--------------------|--------------------|--|--|--|
| Brand | 1st Player | | | |
| Manufacturer (OEM) | Helly Technology | | | |
| Series | NGDP | | | |
| Model Number | HA-850BA4 | | | |
| Serial Number | 240126PSNGDP-E0691 | | | |
| DUT Notes | | | | |
| | | | | |

| DUT SPECIFICATIONS | | | | | | |
|------------------------|---|--|--|--|--|--|
| Rated Voltage (Vrms) | 100-240 | | | | | |
| Rated Current (Arms) | 10-5 | | | | | |
| Rated Frequency (Hz) | 50-60 | | | | | |
| Rated Power (W) | 850 | | | | | |
| Туре | ATX12V | | | | | |
| Cooling | 120mm Fluid Dynamic Bearing Fan (HA1225M12F-Z) | | | | | |
| Semi-Passive Operation | ✓ (selectable) | | | | | |
| Cable Design | Fully Modular | | | | | |

| TEST EQUIPMENT | |
|-----------------------|---|
| Electronic Loads | Chroma 63601-5 x2 Chroma 63600-2 63640-80-80 x10 63610-80-20 |
| AC Sources | Chroma 6530, APM SP300VAC4000W-P |
| Power Analyzers | RS HMC8015, N4L PPA1530, N4L PPA5530 |
| Oscilloscopes | Picoscope 4444, Rigol DS7014, 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, Keithley 2015 - THD |
| UPS | FSP Champ Tower 3kVA, CyberPower OLS3000E 3kVA |
| Isolation Transformer | 4kVA |

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| RESULTS | |
|--|-----------------|
| Temperature Range (°C/°F) | 30-32 / 86-89.6 |
| ErP Lot 3/6 Ready | ✓ |
| (EU) No 617/2013 Compliance | ✓ |
| ALPM (Alternative Low Power Mode) compatible | ✓ |
| ATX v3.1 PSU Power Excursion | / |

| 115V | |
|---|-------------|
| Average Efficiency | 89.029% |
| Efficiency With 10W (≤500W) or 2% (>500W) | 68.952 |
| Average Efficiency 5VSB | 79.773% |
| Standby Power Consumption (W) | 0.0591000 |
| Average PF | 0.994 |
| Avg Noise Output | 23.79 dB(A) |
| Efficiency Rating (ETA) | PLATINUM |
| Noise Rating (LAMBDA) | Α |

| 230V | |
|-------------------------------|-------------|
| Average Efficiency | 91.413% |
| Average Efficiency 5VSB | 80.183% |
| Standby Power Consumption (W) | 0.0926000 |
| Average PF | 0.970 |
| Avg Noise Output | 23.74 dB(A) |
| Efficiency Rating (ETA) | PLATINUM |
| Noise Rating (LAMBDA) | Α |

| POWER SPECIFICATIONS | | | | | | | |
|----------------------|-------|------|----|-------|------|------|--|
| Rail | | 3.3V | 5V | 12V | 5VSB | -12V | |
| | Amps | 20 | 20 | 70.8 | 3 | 0.3 | |
| Max. Power | Watts | 120 | | 849.6 | 15 | 3.6 | |
| Total Max. Power (W) | | 850 | | | | | |

| HOLD-UP TIME & POWER OK SIGNAL (230V) | | | |
|---------------------------------------|------|--|--|
| Hold-Up Time (ms) | 23.8 | | |
| AC Loss to PWR_OK Hold Up Time (ms) | 20.7 | | |
| PWR_OK Inactive to DC Loss Delay (ms) | 3.1 | | |

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| CABLES AND CONNECTORS | | | | | | |
|---------------------------------------|-------------|-------------------------|----------|---------------------|--|--|
| Modular Cables | | | | | | |
| Description | Cable Count | Connector Count (Total) | Gauge | In Cable Capacitors | | |
| ATX connector 20+4 pin (610mm) | 1 | 1 | 18-22AWG | No | | |
| 4+4 pin EPS12V (650mm) | 2 | 2 | 18AWG | No | | |
| 6+2 pin PCle (600mm) | 3 | 3 | 18AWG | No | | |
| 12+4 pin PCle (710mm) (600W) | 1 | 1 | 16-24AWG | No | | |
| SATA (450mm+145mm+145mm+145mm) | 2 | 8 | 18AWG | No | | |
| 4-pin Molex (450mm+145mm+145mm+145mm) | 1 | 4 | 18AWG | No | | |
| AC Power Cord (1360mm) - C13 coupler | 1 | 1 | 18AWG | - | | |

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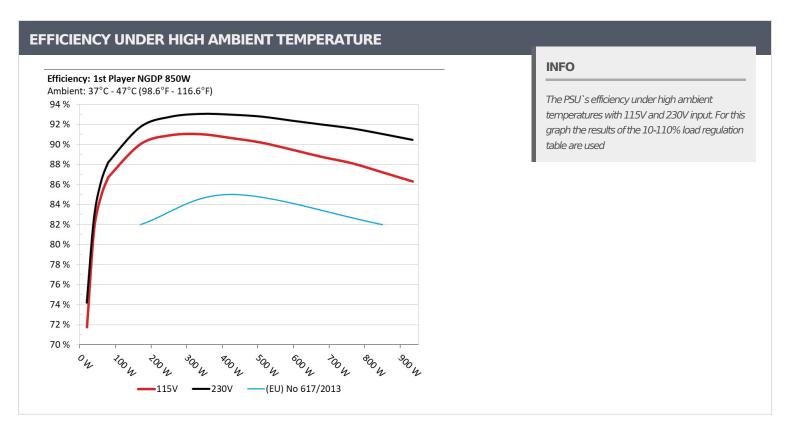
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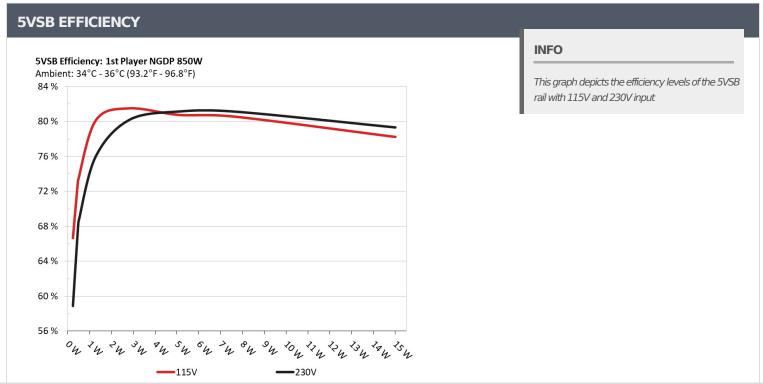
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| 5VSB EFFI | CIENCY -115V (ERF | P LOT 3/6 & CEC) | | |
|-----------|-------------------|------------------|------------|-------------|
| Test # | 5VSB | DC/AC (Watts) | Efficiency | PF/AC Volts |
| 1 | 0.045A | 0.232W | 67.1200/ | 0.054 |
| 1 | 5.149V | 0.346W | 67.129% | 115.15V |
| 2 | 0.09A | 0.463W | 74.4270/ | 0.096 |
| 2 | 5.146V | 0.622W | 74.437% | 115.14V |
| 2 | 0.55A | 2.819W | 02.0050/ | 0.375 |
| 3 | 5.124V | 3.437W | 82.005% | 115.15V |
| 4 | 1A | 5.104W | 01.2450/ | 0.485 |
| 4 | 5.102V | 6.282W | 81.245% | 115.15V |
| - | 1.5A | 7.619W | 01.0610/ | 0.536 |
| 5 | 5.078V | 9.4W | 81.061% | 115.16V |
| | ЗА | 15.016W | 70.7200/ | 0.582 |
| 6 | 5.005V | 19.073W | 78.729% | 115.15V |
| | | | | |

| 5VSB EFFI | CIENCY -230V (ERP | P LOT 3/6 & CEC) | | |
|-----------|-------------------|------------------|----------------|-------------|
| Test # | 5VSB | DC/AC (Watts) | Efficiency | PF/AC Volts |
| | 0.045A | 0.232W | E0 3E00/ | 0.019 |
| 1 | 5.151V | 0.392W | 0.392W 59.356% | 230.4V |
| • | 0.09A | 0.463W | CO 0500/ | 0.032 |
| 2 | 5.148V | 0.678W | 68.259% | 230.4V |
| _ | 0.55A | 2.82W | | 0.153 |
| 3 | 5.125V | 3.495W | 80.699% | 230.4V |
| | 1A | 5.104W | 07.6570/ | 0.246 |
| 4 | 5.103V | 6.251W | 81.657% | 230.4V |
| _ | 1.5A | 7.62W | | 0.321 |
| 5 | 5.078V | 9.332W | 81.648% | 230.4V |
| | 3A | 15.014W | | 0.434 |
| 6 | 5.004V | 18.808W | 79.828% | 230.39V |
| | | | | |

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115V

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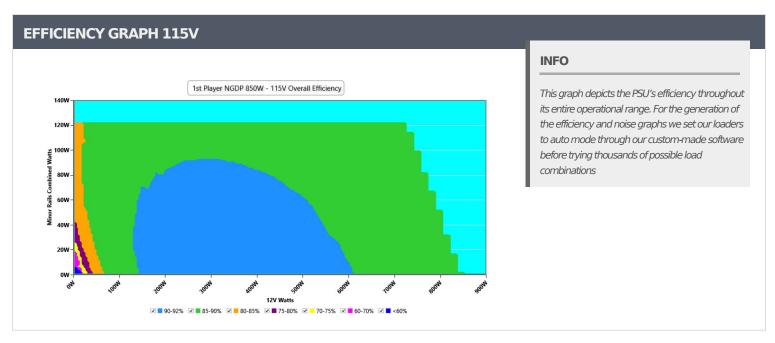
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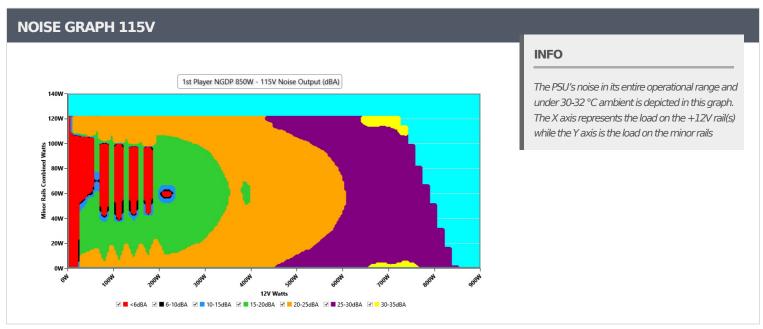
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| VAMPIRE POWER -115V | | | | | | | | |
|---------------------|----------|----------|-----------|----------|-----------|--------|--|--|
| Detailed Results | | | | | | | | |
| | Average | Min | Limit Min | Max | Limit Max | Result | | |
| Mains Voltage RMS: | 115.05 V | 115.00 V | 113.85 V | 115.09 V | 116.15 V | PASS | | |
| Mains Frequency: | 60.00 Hz | 59.95 Hz | 59.40 Hz | 60.02 Hz | 60.60 Hz | PASS | | |
| Mains Voltage CF: | 1.416 | 1.415 | 1.340 | 1.418 | 1.490 | PASS | | |
| Mains Voltage THD: | 0.13 % | 0.08 % | N/A | 0.20 % | 2.00 % | PASS | | |
| Real Power: | 0.059 W | 0.053 W | N/A | 0.065 W | N/A | N/A | | |
| Apparent Power: | 6.582 W | 6.360 W | N/A | 6.811 W | N/A | N/A | | |
| Power Factor: | 0.009 | N/A | N/A | N/A | N/A | N/A | | |

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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| Test | 12V | 5V | 3.3V | 5VSB | DC/AC (Watts) | Efficiency | Fan Speed (RPM) | PSU Noise (dB[A]) | Temps (In/Out) | PF/AC Volts |
|-------|---------|---------|---------|--------|------------------|------------|-----------------------|----------------------|-------------------|----------------|
| 100/ | 5.304A | 1.962A | 1.979A | 0.982A | 85.005 | 06.7040/ | | | 40.39°C | 0.981 |
| 10% | 11.953V | 5.097V | 3.336V | 5.094V | 98.003 | 86.724% | 905 | 20.5 | 44.63°C | 115.15 |
| 200/ | 11.638A | 2.946A | 2.971A | 1.183A | 169.971 | 00.0040/ | 040 | 22.2 | 40.95°C | 0.989 |
| 20% | 11.949V | 5.093V | 3.332V | 5.075V | 188.846 | 90.004% | 949 | 22.2 | 45.49°C | 115.13 |
| 2007 | 18.327A | 3.438A | 3.47A | 1.385A | 254.981 | 00.0000/ | 002 | 22.4 | 41.14°C | 0.993 |
| 30% | 11.945V | 5.091V | 3.329V | 5.056V | 280.512 | 90.898% | 993 | 23.4 | 46.16°C | 115.11 |
| 400/ | 25.028A | 3.932A | 3.969A | 1.589A | 340.082 | 010/ | 1045 | 25.1 | 41.86°C | 0.996 |
| 40% | 11.941V | 5.087V | 3.326V | 5.037V | 373.732 | 91% | 1045 | | 47.45°C | 115.09 |
| E00/ | 31.375A | 4.919A | 4.967A | 1.794A | 425.059 | 00.6100/ | 1100 | 27.5 | 42.23°C | 0.996 |
| 50% | 11.938V | 5.084V | 3.322V | 5.017V | 469.065 | 90.619% | 1123 | 27.5 | 48.26°C | 115.06 |
| C00/ | 37.689A | 5.906A | 5.967A | 2.001A | 509.579 | 00.160/ | 1016 | 20.0 | 42.78°C | 0.997 |
| 60% | 11.934V | 5.081V | 3.319V | 4.997V | 565.192 | 90.16% | 1216 | 29.9 | 49.38°C | 115.05 |
| 700/ | 44.073A | 6.896A | 6.97A | 2.211A | 594.909 | — 90.46E9/ | 1454 | OF 1 | 43.13°C | 0.998 |
| 70% | 11.930V | 5.077V | 3.315V | 4.976V | 664.968 | 89.465% | 1454 | 35.1 | 50.22°C | 115.02 |
| 000/ | 50.460A | 7.884A | 7.973A | 2.318A | 679.724 | 00.7250/ | | 26 F | 43.96°C | 0.998 |
| 80% | 11.926V | 5.073V | 3.311V | 4.961V | 766.069 | 88.735% | 1541 | 36.5 | 52.01°C | 115V |
| 000/ | 57.254A | 8.382A | 8.465A | 2.426A | 765.146 | 00.0000/ | 1605 | 20.0 | 44.38°C | 0.998 |
| 90% | 11.923V | 5.07V | 3.307V | 4.946V | 868.542 | 88.096% | 1625 | 38.0 | 53.39°C | 114.97 |
| 1000/ | 63.780A | 8.88A | 8.988A | 3.059A | 849.957 | 07.1000/ | 1705 | 20.5 | 45.62°C | 0.998 |
| 100% | 11.920V | 5.067V | 3.304V | 4.904V | 974.742 | 87.199% | 1735 | 39.5 | 55.69°C | 114.95 |
| 1100/ | 70.177A | 9.876A | 10.089A | 3.066A | 934.557 | 06.2020/ | 1040 | 40.0 | 46.65°C | 0.998 |
| 110% | 11.916V | 5.063V | 3.3V | 4.893V | 1083.003 | 86.292% | 1840 | 40.9 | 57.59°C | 114.93 |
| CL 1 | 0.117A | 14.234A | 14.357A | 0A | 121.297 | 02.4000/ | 1550 | 26.7 | 41.04°C | 0.989 |
| CL1 | 11.953V | 5.072V | 3.322V | 5.122V | 145.424 | 83.409% | 1558 | 36.7 | 46.56°C | 115.13 |
| CLO | 0.117A | 19.741A | 0A | 0A | 101.393 | 02.5720/ | 1242 | 22.7 | 40.62°C | 0.988 |
| CL2 | 11.954V | 5.065V | 3.339V | 5.135V | 122.796 | 82.573% | 1342 | 32.7 | 47.69°C | 115.14 |
| CI 2 | 0.117A | 0A | 19.886A | 0A | 67.386 | 77.4050/ | 1445 | 24.7 | 40.48°C | 0.978 |
| CL3 | 11.950V | 5.098V | 3.319V | 5.129V | 87.06 | 77.405% | 1445 | 34.7 | 49.53°C | 115.15 |
| CL 4 | 71.278A | 0A | 0A | 0A | 849.576 | 00.1600/ | 1522 | 36.4 | 45.36°C | 0.998 |
| CL4 | 11.920V | 5.086V | 3.317V | 5.078V | 963.588 | 88.169% | 1532 | | 56.32°C | 114.95 |

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| 20-80W 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 |
| 20144 | 1.242A | 0.49A | 0.494A | 0.195A | 20.005 | 71 77 40/ | 0 | <6.0 | 39.67°C | 0.861 |
| 20W | 20W 11.953V | 5.103V | 3.341V | 5.141V | 27.871 | 71.774% | | | 36.59°C | 115.17V |
| 40)44 | | 0.686A | 0.691A | 0.292A | 40.003 | 81.513% | 0 | <6.0 | 41.01°C | 0.942 |
| 40W | 11.954V | 5.102V | 3.341V | 5.134V | 49.121 | | 0 | | 37.69°C | 115.17V |
| COM | 4.228A | 0.883A | 0.889A | 0.39A | 60.002 | 04.0600/ | 052 | 19 | 38.12°C | 0.968 |
| 60W | 11.953V | 5.1V | 3.339V | 5.127V | 70.701 | 84.869% | 853 | | 41.92°C | 115.15V |
| 00147 | 5.718A | 1.079A | 1.088A | 0.488A | 79.968 | 86.979% | 050 | 19 | 39.14°C | 0.979 |
| 80W | 11.952V | 5.098V | 3.337V | 5.12V | 91.937 | | 859 | | 43.09°C | 115.15V |

| RIPPLE MEA | SUREMENTS 115V | | | | |
|------------|----------------|---------|---------|---------|-----------|
| Test | 12V | 5V | 3.3V | 5VSB | Pass/Fail |
| 10% Load | 11.79mV | 5.81mV | 5.80mV | 8.10mV | Pass |
| 20% Load | 12.07mV | 7.14mV | 6.87mV | 8.97mV | Pass |
| 30% Load | 12.18mV | 7.14mV | 7.73mV | 8.66mV | Pass |
| 40% Load | 11.38mV | 6.38mV | 7.22mV | 8.36mV | Pass |
| 50% Load | 11.84mV | 7.24mV | 7.27mV | 8.91mV | Pass |
| 60% Load | 13.79mV | 7.60mV | 8.59mV | 9.73mV | Pass |
| 70% Load | 14.33mV | 8.11mV | 8.75mV | 10.50mV | Pass |
| 80% Load | 12.82mV | 6.63mV | 11.29mV | 10.04mV | Pass |
| 90% Load | 17.20mV | 8.01mV | 11.85mV | 11.51mV | Pass |
| 100% Load | 26.20mV | 10.41mV | 13.81mV | 15.89mV | Pass |
| 110% Load | 27.30mV | 9.66mV | 13.86mV | 16.65mV | Pass |
| Crossload1 | 18.65mV | 9.77mV | 14.74mV | 23.05mV | Pass |
| Crossload2 | 11.96mV | 8.32mV | 7.17mV | 19.00mV | Pass |
| Crossload3 | 11.79mV | 6.99mV | 12.77mV | 19.21mV | Pass |
| Crossload4 | 25.79mV | 7.85mV | 7.90mV | 26.50mV | Pass |

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230V

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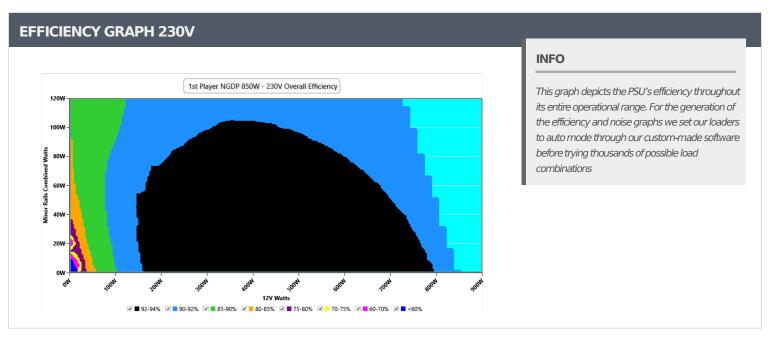
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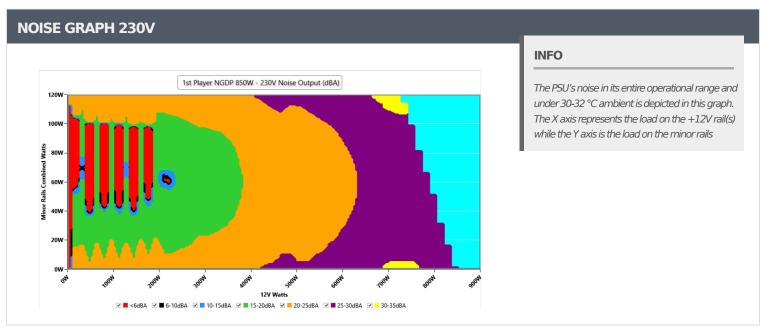
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| VAMPIRE POWER -230V | | | | | | | | | | | |
|---------------------|----------|----------|-----------|----------|-----------|--------|--|--|--|--|--|
| Detailed Results | | | | | | | | | | | |
| | Average | Min | Limit Min | Max | Limit Max | Result | | | | | |
| Mains Voltage RMS: | 230.98 V | 230.88 V | 227.70 V | 231.03 V | 232.30 V | PASS | | | | | |
| Mains Frequency: | 50.00 Hz | 49.99 Hz | 49.50 Hz | 50.01 Hz | 50.50 Hz | PASS | | | | | |
| Mains Voltage CF: | 1.417 | 1.416 | 1.340 | 1.419 | 1.490 | PASS | | | | | |
| Mains Voltage THD: | 0.17 % | 0.14 % | N/A | 0.24 % | 2.00 % | PASS | | | | | |
| Real Power: | 0.093 W | 0.082 W | N/A | 0.113 W | N/A | N/A | | | | | |
| Apparent Power: | 21.594 W | 21.292 W | N/A | 21.913 W | N/A | N/A | | | | | |
| Power Factor: | 0.004 | N/A | N/A | N/A | N/A | N/A | | | | | |

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|-------|---------|---------|---------|--------|------------------|------------|-----------------------|----------------------|-------------------|----------------|
| 100/ | 5.304A | 1.962A | 1.978A | 0.982A | 84.996 | 00.1000/ | | 20.7 | 40.13°C | 0.876 |
| 10% | 11.953V | 5.097V | 3.337V | 5.094V | 96.374 | 88.192% | 912 | 20.7 | 44.35°C | 230.37 |
| 200/ | 11.636A | 2.945A | 2.97A | 1.182A | 169.941 | 01.720/ | OE 4 | 22.2 | 40.68°C | 0.951 |
| 20% | 11.949V | 5.093V | 3.333V | 5.075V | 185.283 | 91.72% | 954 | 22.3 | 45.21°C | 230.36 |
| 200/ | 18.325A | 3.438A | 3.469A | 1.385A | 254.947 | 02.7400/ | 001 | 22.4 | 41.07°C | 0.971 |
| 30% | 11.945V | 5.091V | 3.329V | 5.056V | 274.878 | 92.749% | 991 | 23.4 | 46.09°C | 230.35 |
| 400/ | 25.025A | 3.932A | 3.968A | 1.588A | 340.038 | 02.0250/ | 1054 | 25.4 | 41.67°C | 0.98 |
| 40% | 11.941V | 5.088V | 3.326V | 5.037V | 365.495 | 93.035% | 1054 | 25.4 | 47.18°C | 230.35 |
| E00/ | 31.364A | 4.918A | 4.966A | 1.794A | 424.93 | 02.060/ | 1105 | 27.5 | 42.11°C | 0.984 |
| 50% | 11.938V | 5.084V | 3.322V | 5.018V | 457.106 | 92.96% | 1125 | | 48.19°C | 230.34 |
| 600/ | 37.679A | 5.906A | 5.966A | 2A | 509.459 | - 02.7600/ | 1210 | 20.7 | 42.82°C | 0.987 |
| 60% | 11.934V | 5.081V | 3.319V | 4.998V | 549.177 | 92.768% | 1210 | 29.7 | 49.33°C | 230.33 |
| 70% | 44.064A | 6.896A | 6.969A | 2.21A | 594.81 | 92.368% | 1445 | 24.7 | 43.34°C | 0.989 |
| 70% | 11.930V | 5.077V | 3.315V | 4.977V | 643.961 | 92.300% | | 34.7 | 50.38°C | 230.32 |
| 80% | 50.454A | 7.884A | 7.973A | 2.318A | 679.627 | 91.976% | 1543 | 36.5 | 43.64°C | 0.99 |
| 00% | 11.926V | 5.073V | 3.311V | 4.962V | 738.918 | 91.970% | | 50.5 | 51.83°C | 230.31 |
| 000/ | 57.248A | 8.382A | 8.465A | 2.426A | 765.066 | — 01 F040/ | 1622 | 20.2 | 44.7°C | 0.991 |
| 90% | 11.923V | 5.07V | 3.307V | 4.947V | 835.367 | 91.584% | 1632 | 38.2 | 53.84°C | 230.3V |
| 1000/ | 63.778A | 8.88A | 8.988A | 3.059A | 849.877 | 91.034% | 1746 | 39.6 | 45.8°C | 0.992 |
| 100% | 11.920V | 5.068V | 3.304V | 4.905V | 933.585 | 91.034% | 1/40 | J9.0 | 55.85°C | 230.29 |
| 1100/ | 70.175A | 9.873A | 10.089A | 3.065A | 934.48 | - 00 4400/ | 1041 | 40.0 | 46.56°C | 0.992 |
| 110% | 11.916V | 5.064V | 3.3V | 4.894V | 1033.151 | 90.449% | 1841 | 40.9 | 57.49°C | 230.27 |
| CL1 | 0.117A | 14.233A | 14.357A | 0A | 121.29 | 04 0050/ | 1564 | 26.0 | 40.63°C | 0.93 |
| CLI | 11.953V | 5.072V | 3.322V | 5.122V | 142.869 | 84.895% | 1564 | 36.8 | 46.08°C | 230.37 |
| CL2 | 0.117A | 19.741A | 0A | 0A | 101.39 | 02 0040/ | 1.401 | 22.7 | 40.46°C | 0.911 |
| CLZ | 11.954V | 5.065V | 3.338V | 5.135V | 120.869 | 83.884% | 1401 | 33.7 | 47.52°C | 230.37 |
| CI 2 | 0.117A | 0A | 19.887A | 0A | 67.386 | — 70 /110/ | 1.400 | 25.4 | 40.19°C | 0.856 |
| CL3 | 11.951V | 5.098V | 3.319V | 5.129V | 85.942 | 78.411% | 1480 | 35.4 | 49.27°C | 230.38 |
| CL 4 | 71.272A | 0A | 0A | 0A | 849.644 | 01.6740/ | 1567 | 26.0 | 45.13°C | 0.991 |
| CL4 | 11.922V | 5.086V | 3.316V | 5.078V | 926.808 | 91.674% | 1567 | 36.8 | 56.11°C | 230.28 |

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

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> 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



Anex

1st Player NGDP 850W

| 20-80W LOAD TESTS 230V | | | | | | | | | 1 | |
|------------------------|---------|--|--------|--------|---------------------|------------|--------------------|----------------------|-------------------|----------------|
| Test | 12V | 5V | 3.3V | 5VSB | DC/AC (Watts) | Efficiency | Fan Speed (RPM) | PSU Noise (dB[A]) | Temps (In/Out) | PF/AC Volts |
| 2014 | 1.242A | 0.49A | 0.494A | 0.195A | 19.996 | 74.0060/ | 0 | <6.0 | 39.82°C | 0.552 |
| 20W | 11.952V | 5.102V | 3.34V | 5.141V | 27.543 | 74.226% | | | 36.76°C | 230.37V |
| 40)44 | 2.734A | 0.686A | 0.691A | 0.292A | 39.995 | 00.5000/ | _ | 6.0 | 41.05°C | 0.705 |
| 40W | 11.954V | 5.102V | 3.34V | 5.134V | 82.599% 0 48.422 | 0 | <6.0 | 37.77°C | 230.38V | |
| 60144 | 4.226A | 0.882A | 0.889A | 0.39A | 59.993 | 06.0600/ | 070 | | 38.74°C | 0.808 |
| 60W | 11.954V | 954V 5.1V 3.339V 5.128V 69.543 86.269% 872 | 8/2 | 19.3 | 42.22°C | 230.37V | | | | |
| 00147 | 5.716A | 1.079A | 1.087A | 0.488A | 79.944 | 00.05.40/ | 071 | 19.3 | 39.39°C | 0.865 |
| 80W | 11.953V | 5.099V | 3.338V | 5.121V | 90.583 | 88.254% | 871 | | 43.25°C | 230.37V |
| | | | | | | | | | | |

| RIPPLE MEAS | SUREMENTS 230 | | | | |
|-------------|---------------|--------|---------|---------|-----------|
| Test | 12V | 5V | 3.3V | 5VSB | Pass/Fail |
| 10% Load | 11.54mV | 7.25mV | 6.66mV | 8.26mV | Pass |
| 20% Load | 11.77mV | 7.35mV | 7.48mV | 8.51mV | Pass |
| 30% Load | 12.13mV | 7.04mV | 7.12mV | 8.97mV | Pass |
| 40% Load | 12.65mV | 7.09mV | 7.53mV | 9.02mV | Pass |
| 50% Load | 13.27mV | 6.88mV | 7.88mV | 9.42mV | Pass |
| 60% Load | 12.96mV | 7.45mV | 8.09mV | 10.19mV | Pass |
| 70% Load | 14.13mV | 7.14mV | 8.90mV | 10.54mV | Pass |
| 80% Load | 15.16mV | 8.01mV | 11.14mV | 10.60mV | Pass |
| 90% Load | 15.67mV | 8.52mV | 11.60mV | 11.21mV | Pass |
| 100% Load | 26.04mV | 9.04mV | 13.67mV | 14.85mV | Pass |
| 110% Load | 26.97mV | 9.38mV | 14.01mV | 15.14mV | Pass |
| Crossload1 | 17.63mV | 9.84mV | 13.85mV | 22.51mV | Pass |
| Crossload2 | 10.92mV | 7.65mV | 6.87mV | 18.75mV | Pass |
| Crossload3 | 11.57mV | 6.84mV | 12.56mV | 17.93mV | Pass |
| Crossload4 | 26.17mV | 7.24mV | 7.72mV | 24.73mV | Pass |

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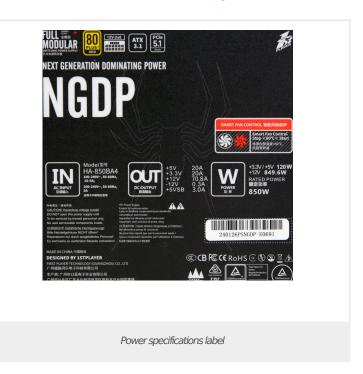
> The link to the original test results document should be provided in any case



Anex

1st Player NGDP 850W













Aristeidis BitziopoulosLab Director

CERTIFICATIONS 230V





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