

Testing Report - Performance - Efficiency

Date 07/07/2018

Efficiency Load 50%

89.92

Everange Efficiency Load 10% - 100%

88.87

General Evaluation

70.16/100

| | |
|--------------|--------------|
| Manufacturer | COMSTAR |
| Model | COMSTAR 1850 |
| Serial | - |
| Type | ATX |
| PFC | N.D. |

| Specification | Value | |
|-------------------------|--------|-------|
| Input Voltage (Volt AC) | 230 | |
| Input Current (Ampere) | 10 | |
| Input Frequency (Hz) | 50 | |
| Output Power (Watt) | 1850 | |
| | Ampere | Watt |
| Output +12V | 154A | 1850W |
| Output +5V | 20A | 130W |
| Output +3.3V | 20A | |
| Output +5Vsb | 2.5A | 12.5W |
| Output -12V | 0.5° | 6W |

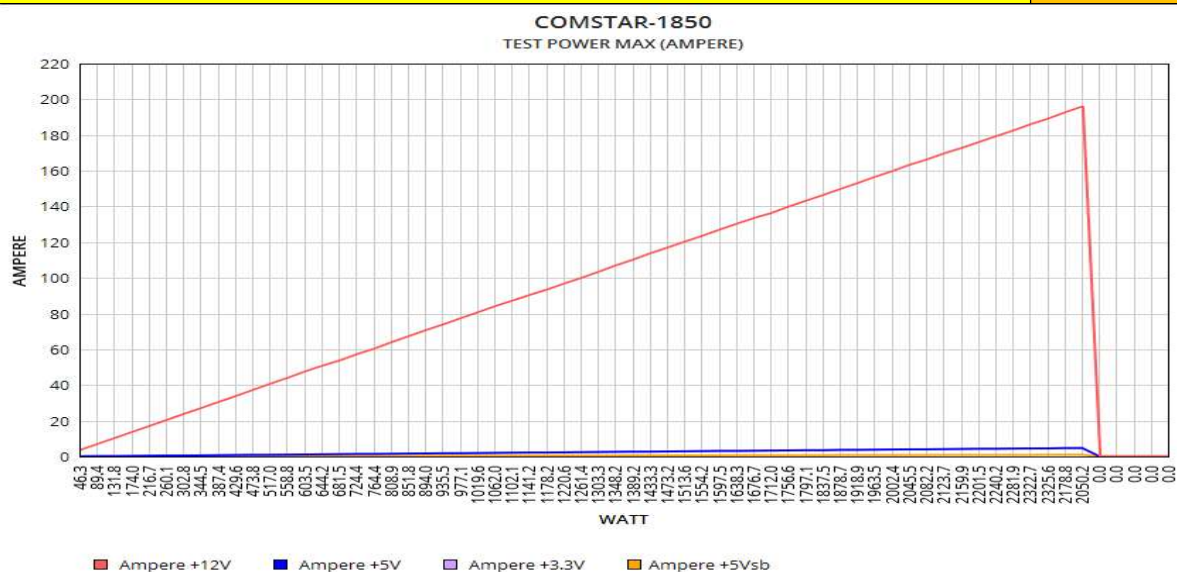


Measurement conditions (pure sine wave):

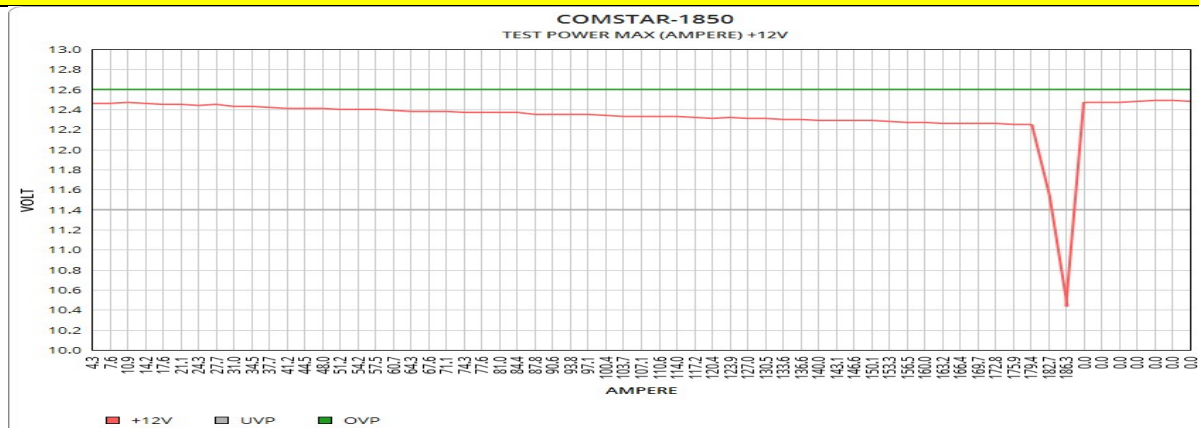
220V / 50Hz

Power Max Ampere - Value [+12V-210A]-[+5V-5A]-[+3.3V-5A]-[+5Vsb-1A]

Rating: 7.28/10

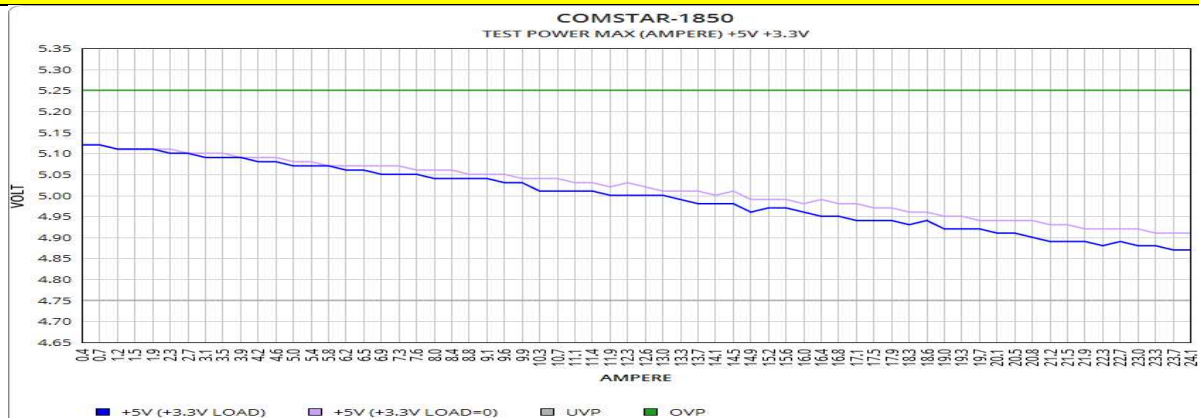


Power Max Ampere - Value [+12V-210A]-[+5V-0A]-[+3.3V-0A]-[+5Vsb-0A]



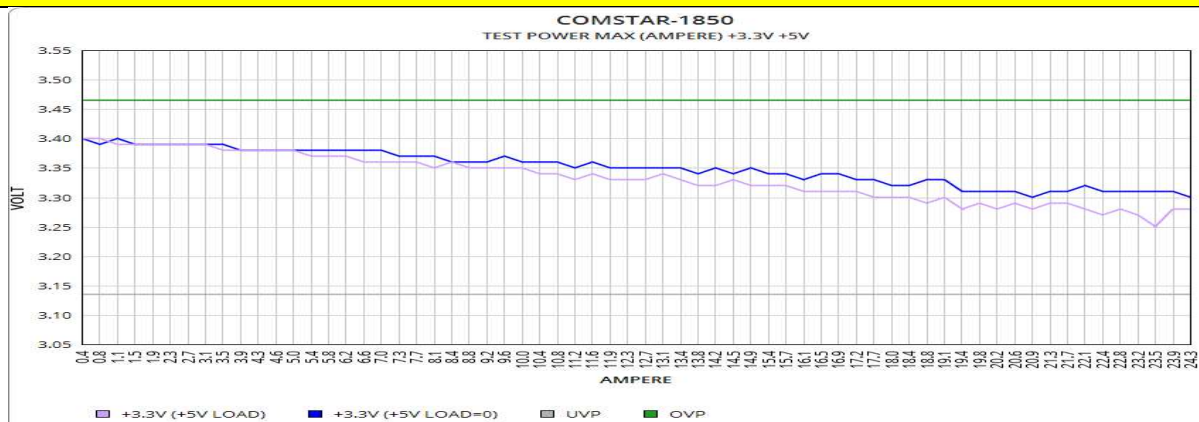
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Power Max Ampere - Value [+12V-0A]-[+5V-25A]-[+3.3V-25A]-[+5Vsb-0A]



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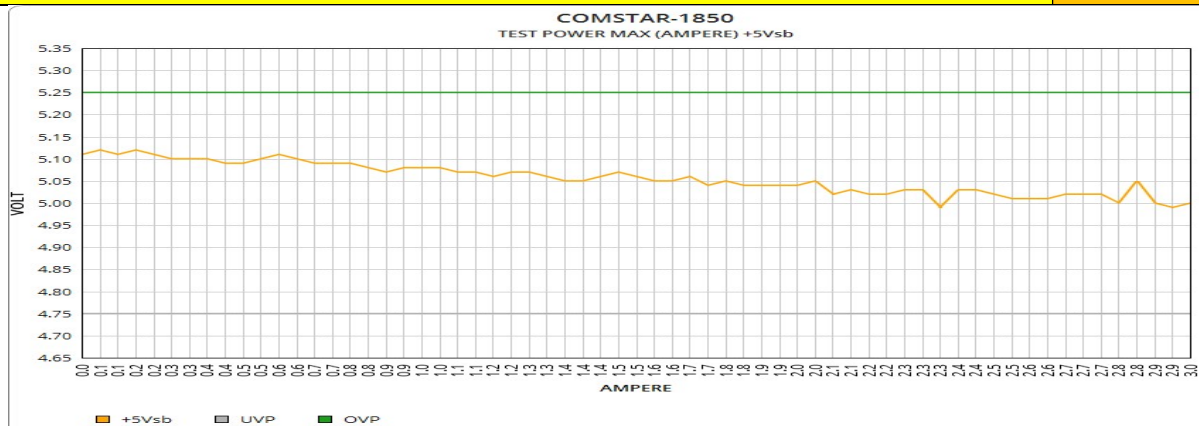
Power Max Ampere - Value [+12V-0A]-[+5V-25A]-[+3.3V-25A]-[+5Vsb-0A]



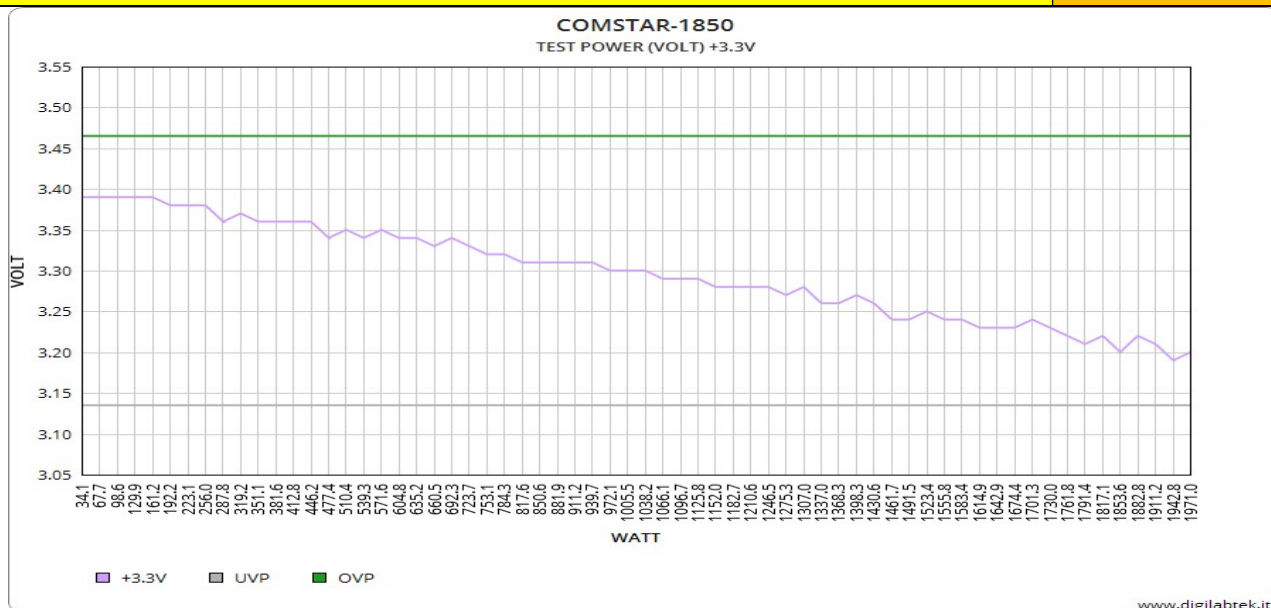
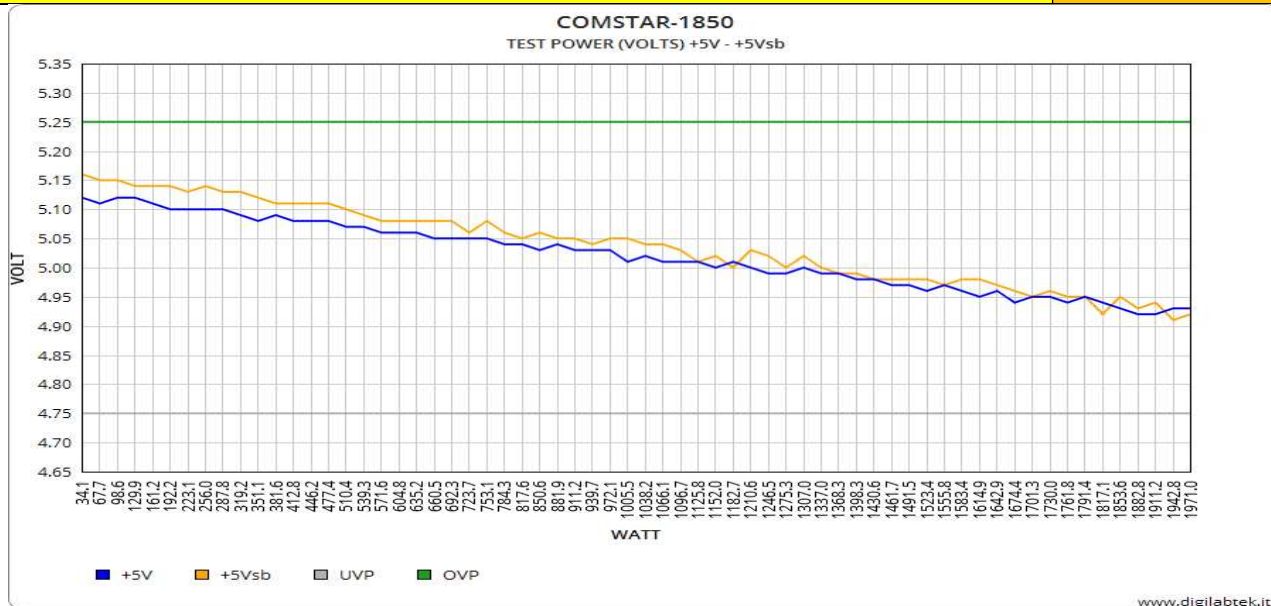
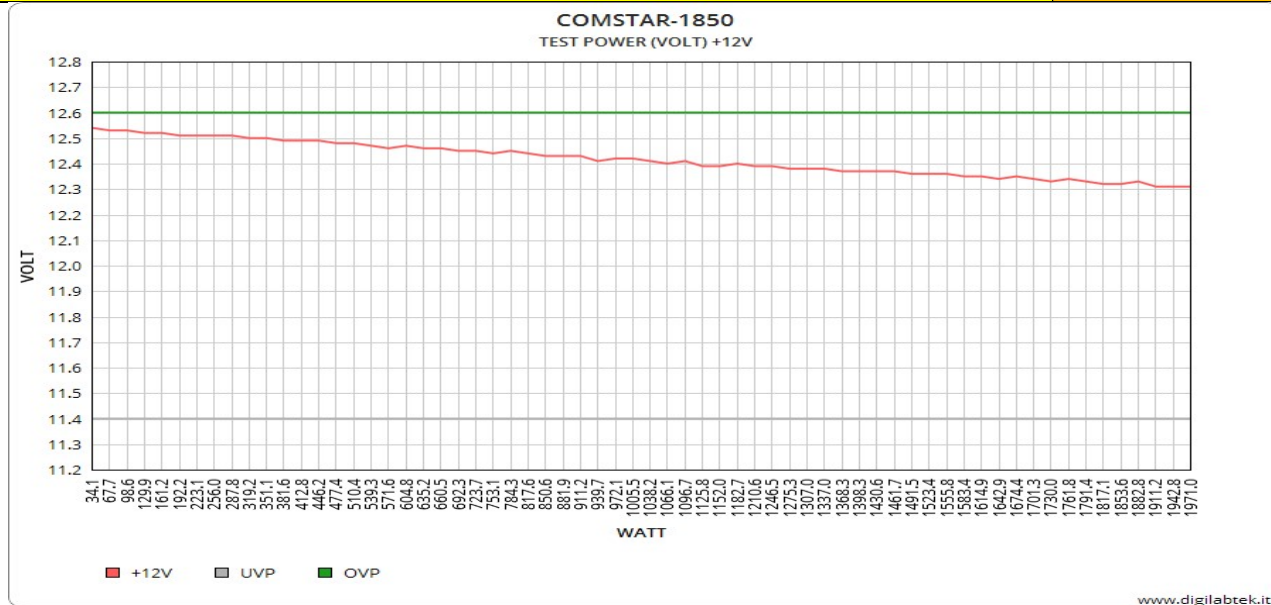
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Power Max Ampere - Value [+12V-0A]-[+5V-0A]-[+3.3V-0A]-[+5Vsb-3.0A]

Rating: 7.08/10

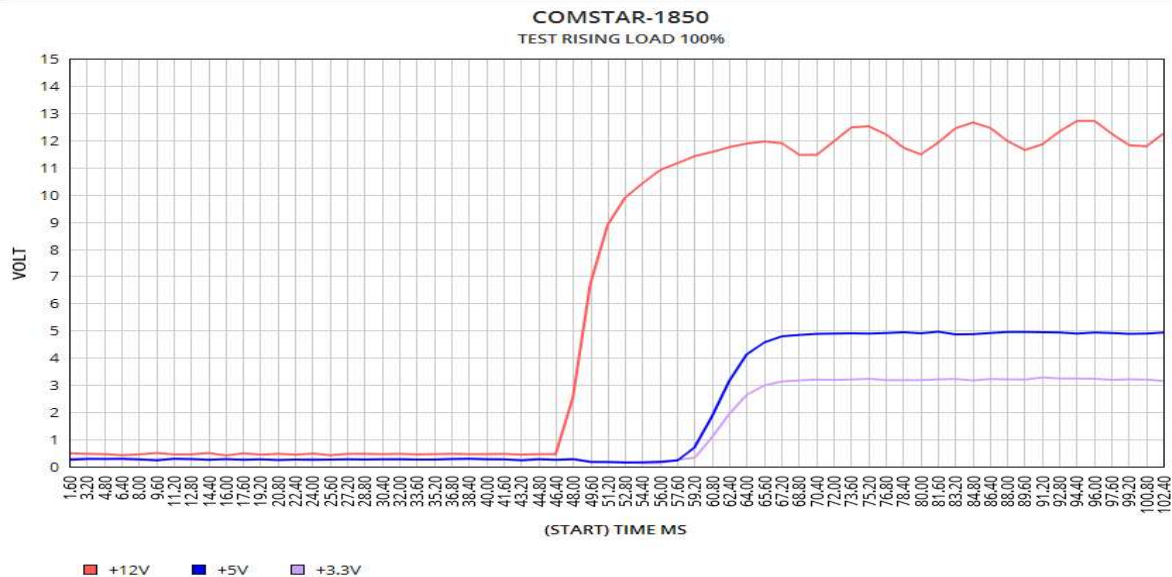


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Rising (Voltage) - Value [+12V-154A]-[+5V-5A]-[+3.3V-5A]-[+5Vsb-1A]

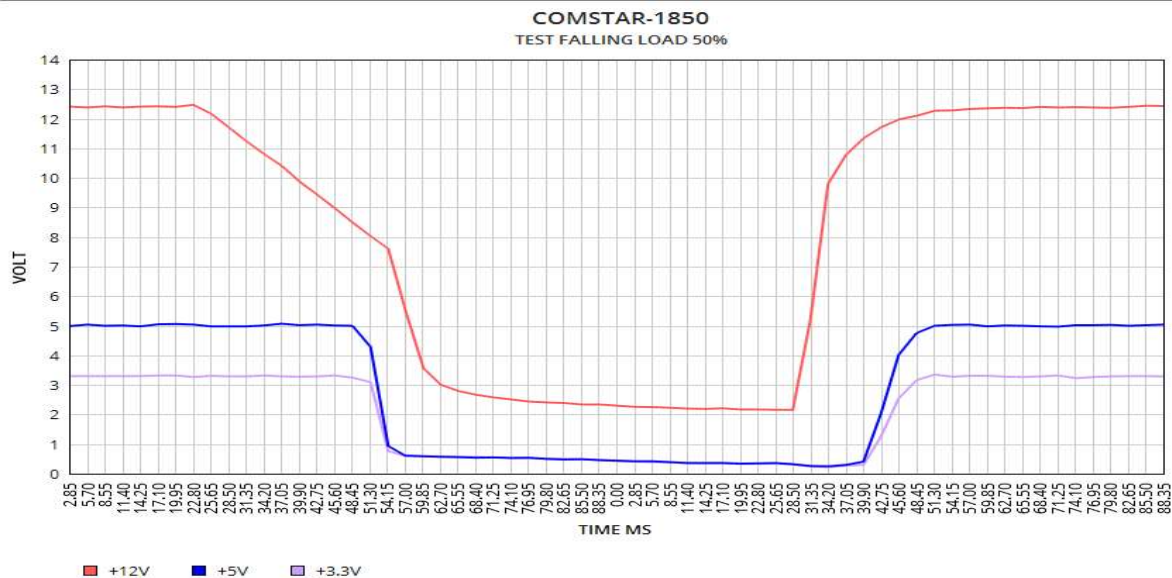
Rating: 6.56/10



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Falling (Voltage) - Value [+12V-77A]-[+5V-3A]-[+3.3V-3A]-[+5Vsb-1A]

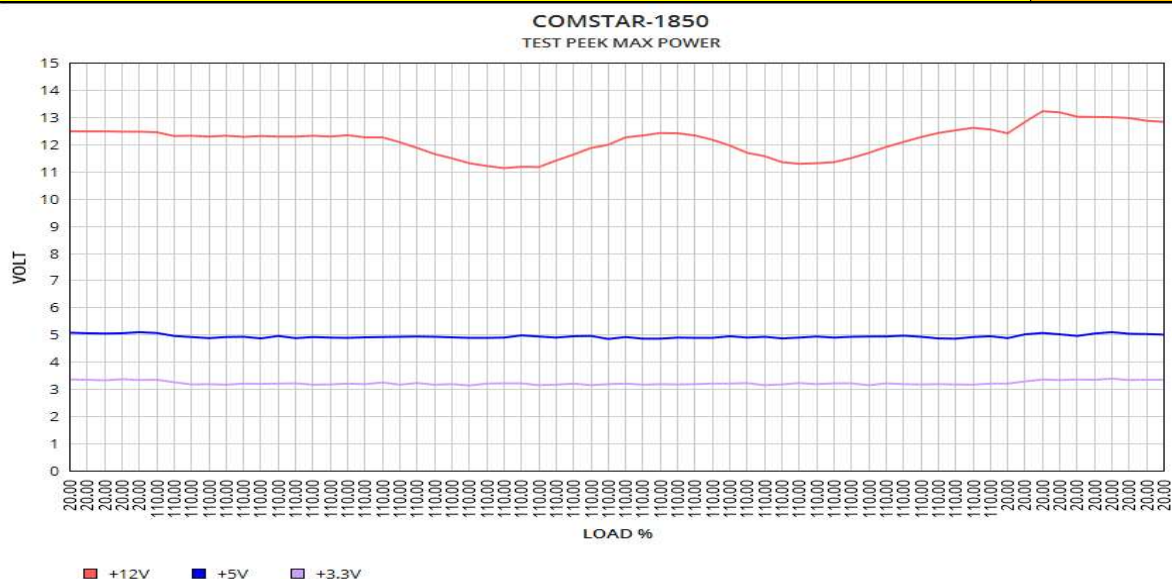
Rating: 5.75/10



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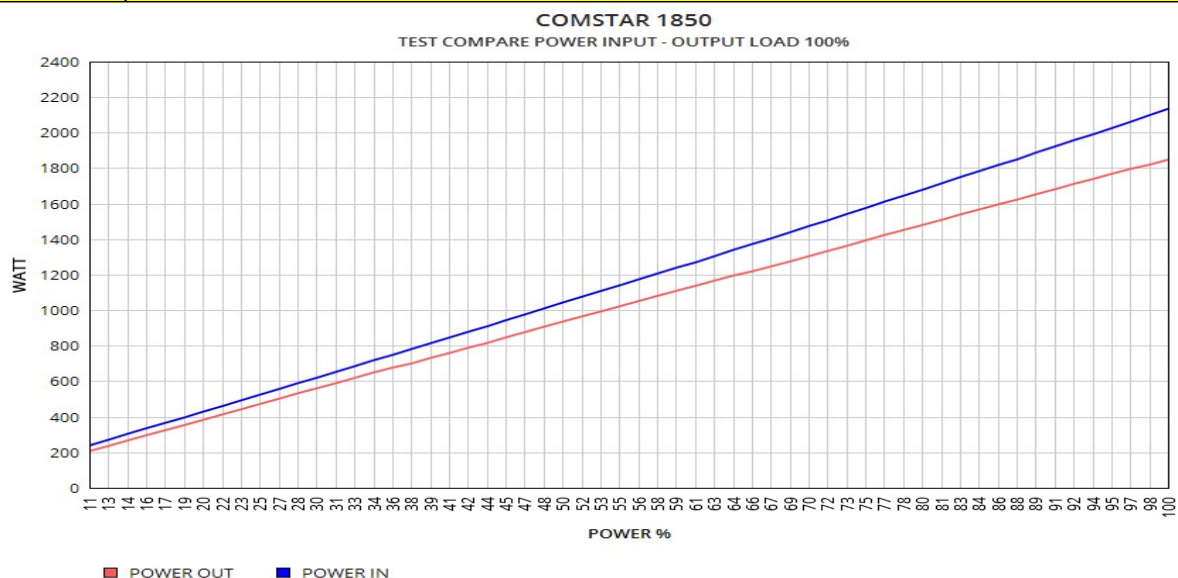
Peek (Voltage) - Value [+12V-154A]-[+5V-5A]-[+3.3V-5A]-[+5Vsb-1A]

Rating: 7.10/10



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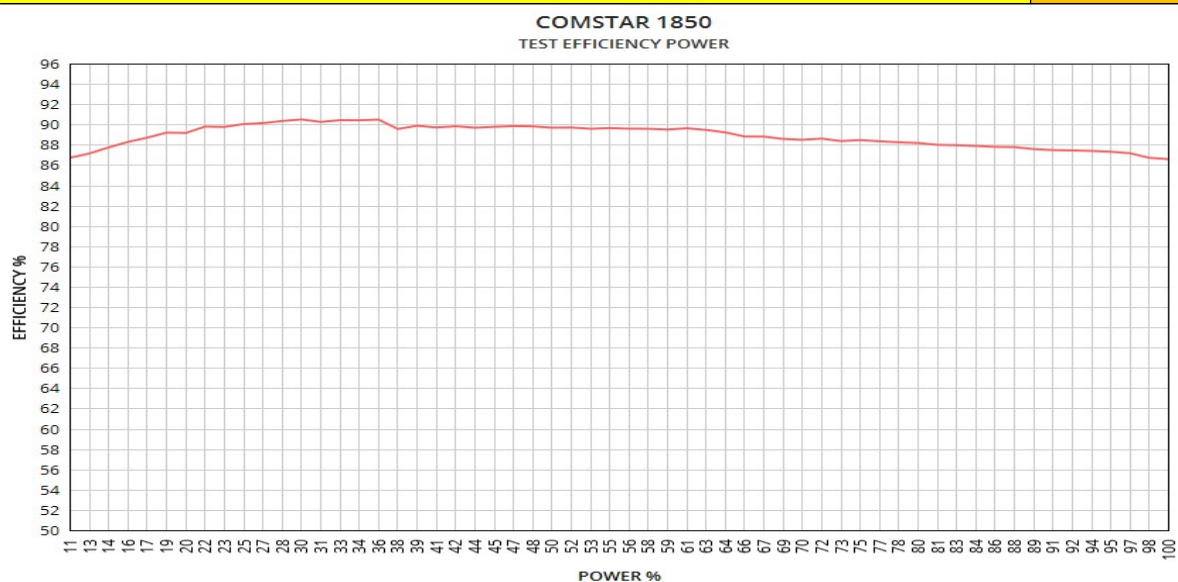
Compare Input and Output Power



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Efficiency Power Supply

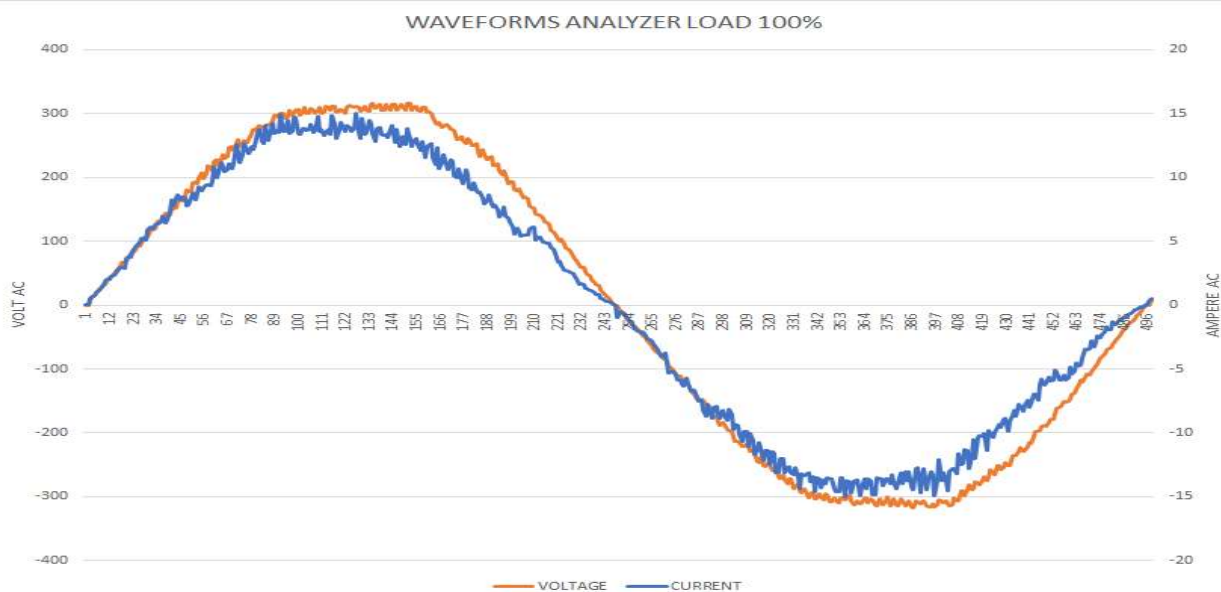
Rating: 7/10



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Compare Current and Voltage Waveforms

Rating:



| Efficiency Report | | | | | | | | | |
|--|-------|------|--------|------------|---------|---------|----------|----------|------------|
| Watt In | I-rms | FP | Load % | +12V/A | +5V/A | +3.3V/A | +5Vsb/A | Watt Out | Efficiency |
| 426.99 | 1.854 | 0.98 | 20% | 12.4/30.0 | 5.1/1.0 | 3.3/1.0 | 5.1/0.55 | 384.14 | 89.96% |
| 1042.86 | 4.563 | 0.99 | 50% | 12.4/73.45 | 5.0/2.6 | 3.3/2.5 | 5.0/1.0 | 937.76 | 89.92% |
| 2139.99 | 9.414 | 0.99 | 100% | 12.3/145.9 | 4.9/5.1 | 3.2/5.1 | 4.9/2.1 | 1853.73 | 86.62% |
| Standby Power IEC62301-2011 (MAX 0.5W) | | | | | | | FAIL | 0.696W | |
| | | | | | | | | | |
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