

Testing Report - Performance - Efficiency

Date 24/08/2018

Efficiency Load 50%

95.59

Everange Efficiency Load 10% - 100%

91.06

General Evaluation

75.44/100

Manufacturer	Cortek S.r.l.
Model	Sirius 800
Serial	-
Type	ATX
PFC	Active

Specification	Value	
Input Voltage (Volt AC)	100-240	
Input Current (Ampere)	12-6	
Input Frequency (Hz)	47-63	
Output Power (Watt)	800	
	Ampere	Watt
Output +12V	66A	792W
Output +5V	15A	103W
Output +3.3V	16A	
Output +5Vsb	2.5A	12.5W
Output -12V	0.3A	3.6W

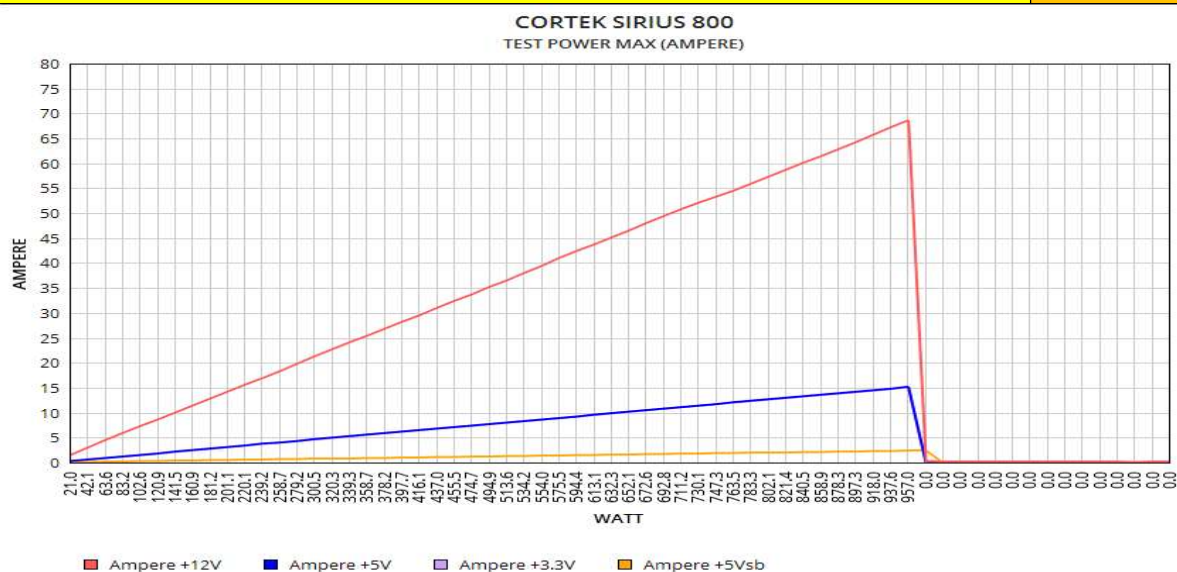


Measurement conditions (pure sine wave):

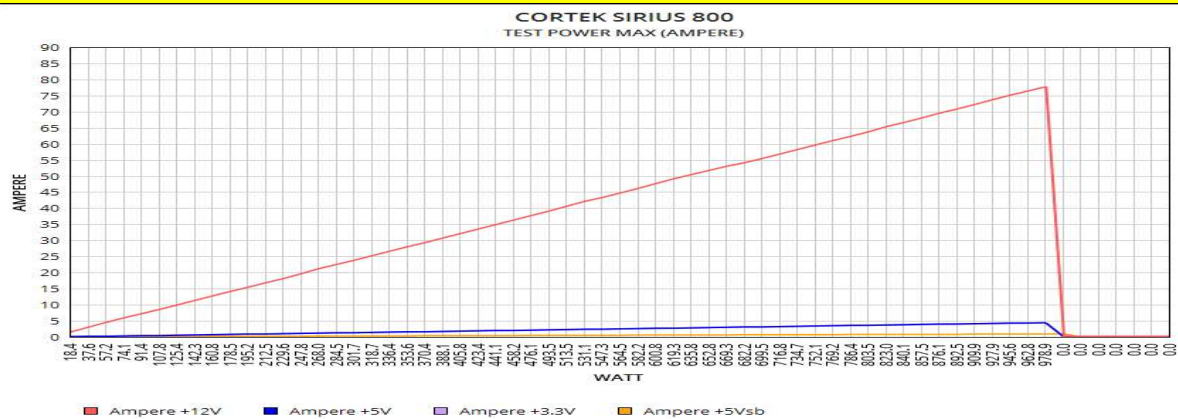
220V / 50Hz

Power Max Ampere - Value [+12V-90A]-[+5V-20A]-[+3.3V-20A]-[+5Vsb-3A]

Rating: 7.11/10

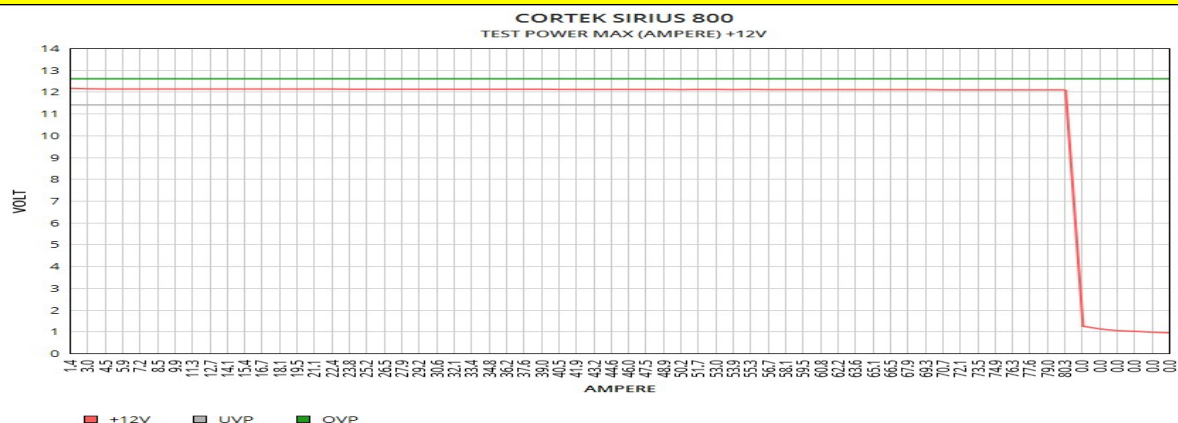


Power Max Ampere - Value [+12V-90A]-[+5V-5A]-[+3.3V-5A]-[+5Vsb-1A]



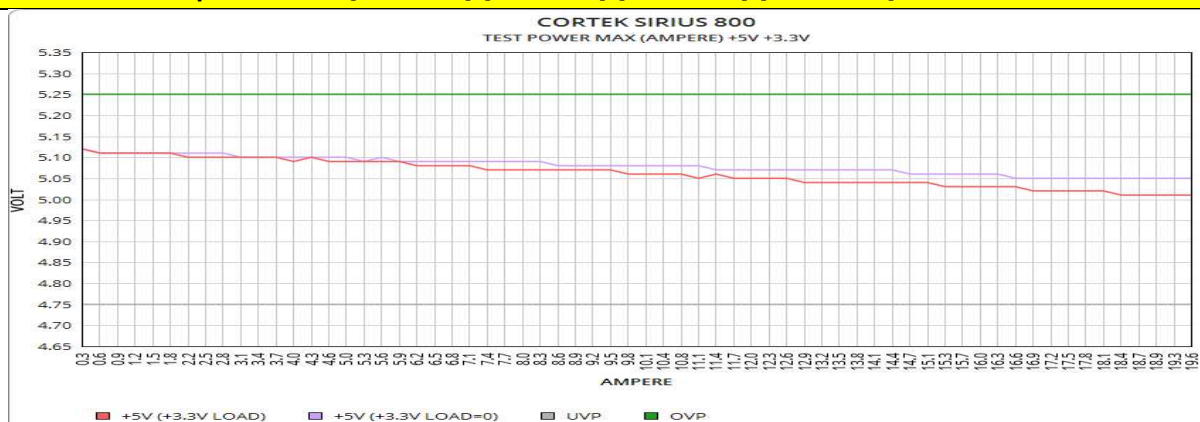
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Power Max Ampere - Value [+12V-90A]-[+5V-0A]-[+3.3V-0A]-[+5Vsb-0A]



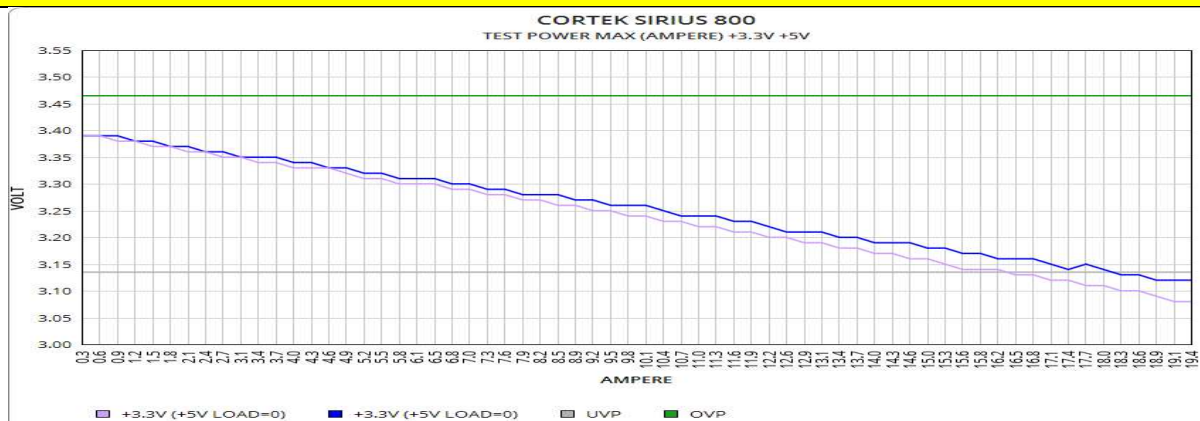
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Power Max Ampere - Value [+12V-0A]-[+5V-20A]-[+3.3V-0A]-[+5Vsb-0A]



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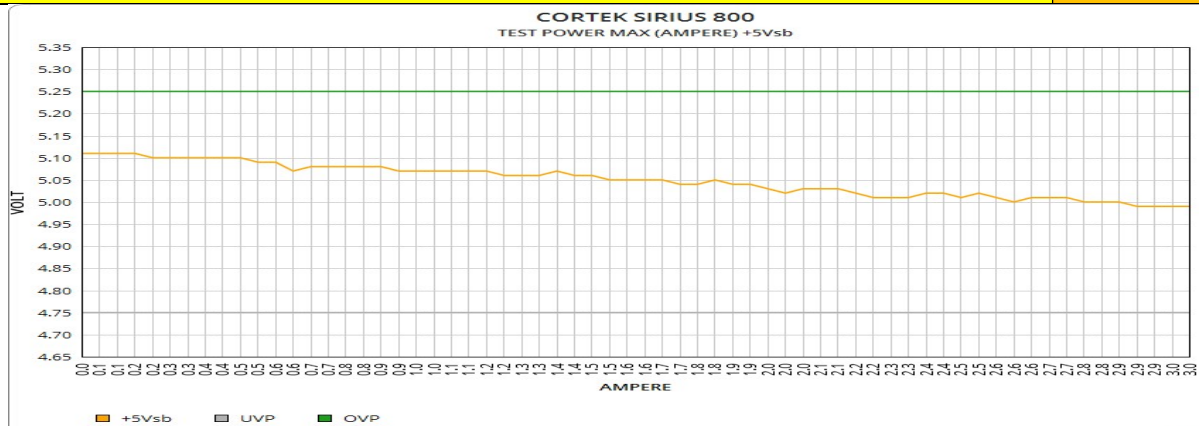
Power Max Ampere - Value [+12V-0A]-[+5V-0A]-[+3.3V-20A]-[+5Vsb-0A]



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Power Max Ampere - Value [+12V-0A]-[+5V-0A]-[+3.3V-0A]-[+5Vsb-3A]

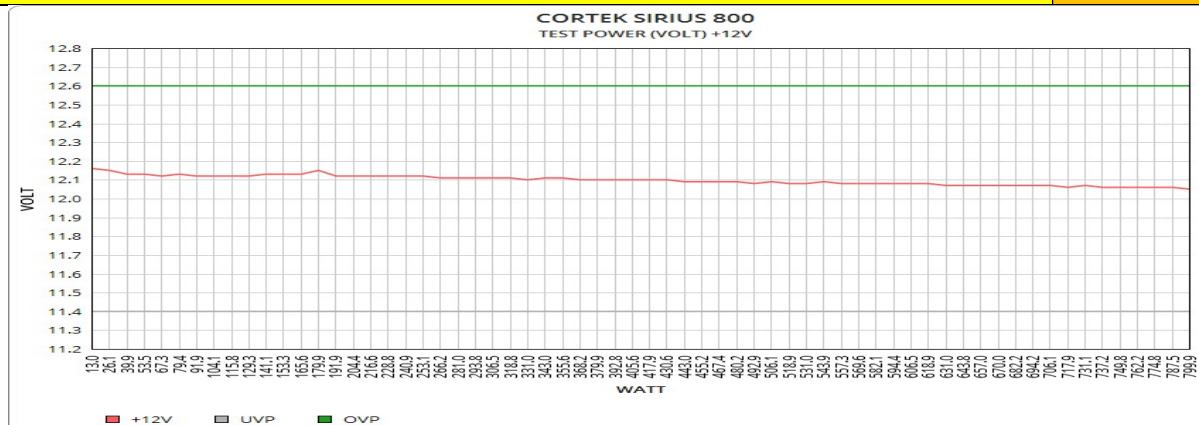
Rating: 7.50/10



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Power (Voltage 12V) - Value [+12V-59A]-[+5V-10A]-[+3.3V-11A]-[+5Vsb-2A]

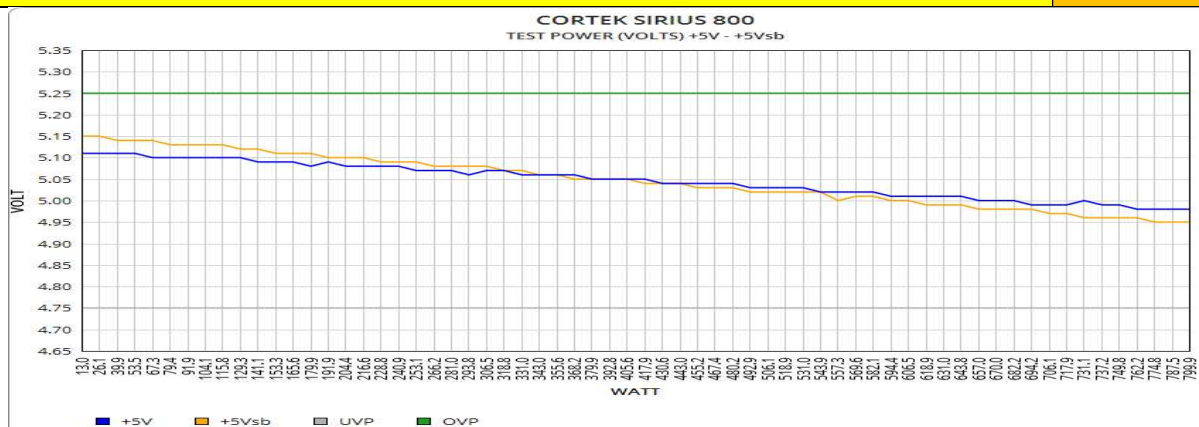
Rating: 9.72/10



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Power (Voltage 5V + 5Vsb) - Value [+12V-59A]-[+5V-10A]-[+3.3V-11A]-[+5Vsb-2A]

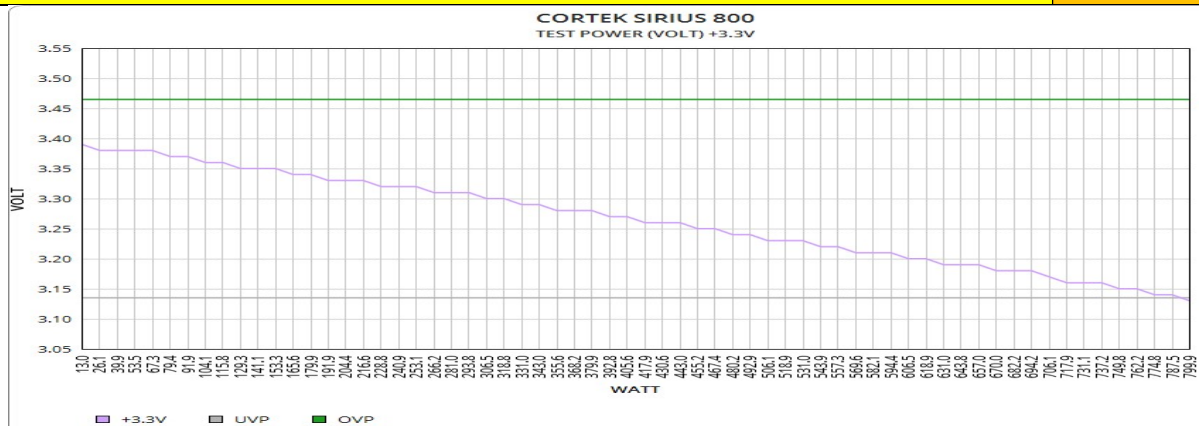
Rating: 8.89/10



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Power (Voltage 3.3V) - Value [+12V-59A]-[+5V-10A]-[+3.3V-11A]-[+5Vsb-2A]

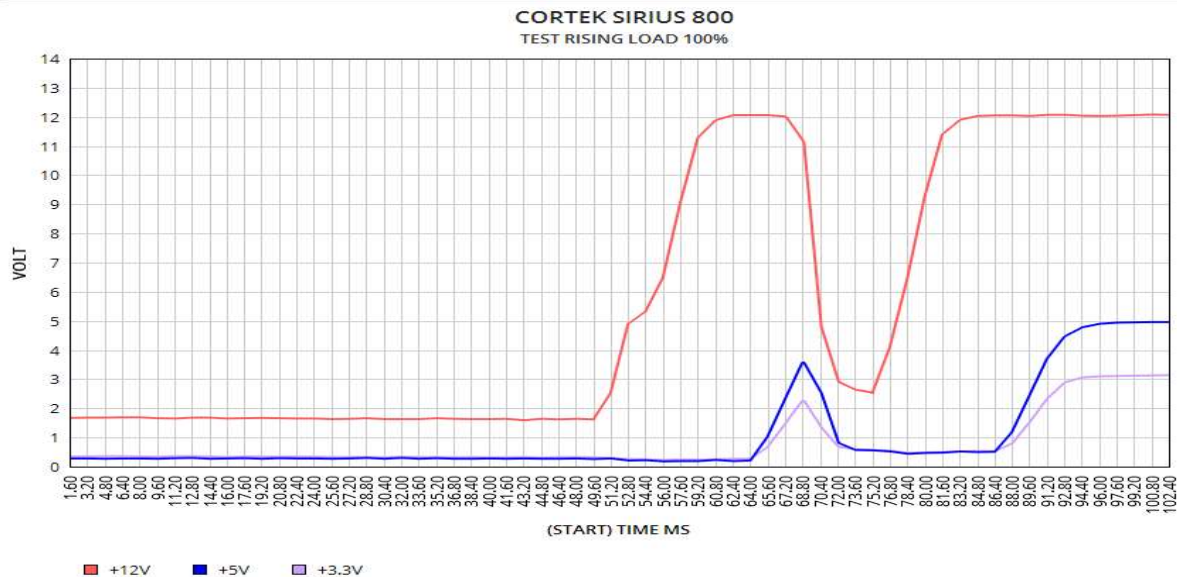
Rating: 7.46/10



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Rising (Voltage) - Value [+12V-59A]-[+5V-10A]-[+3.3V-11A]-[+5Vsb-2A]

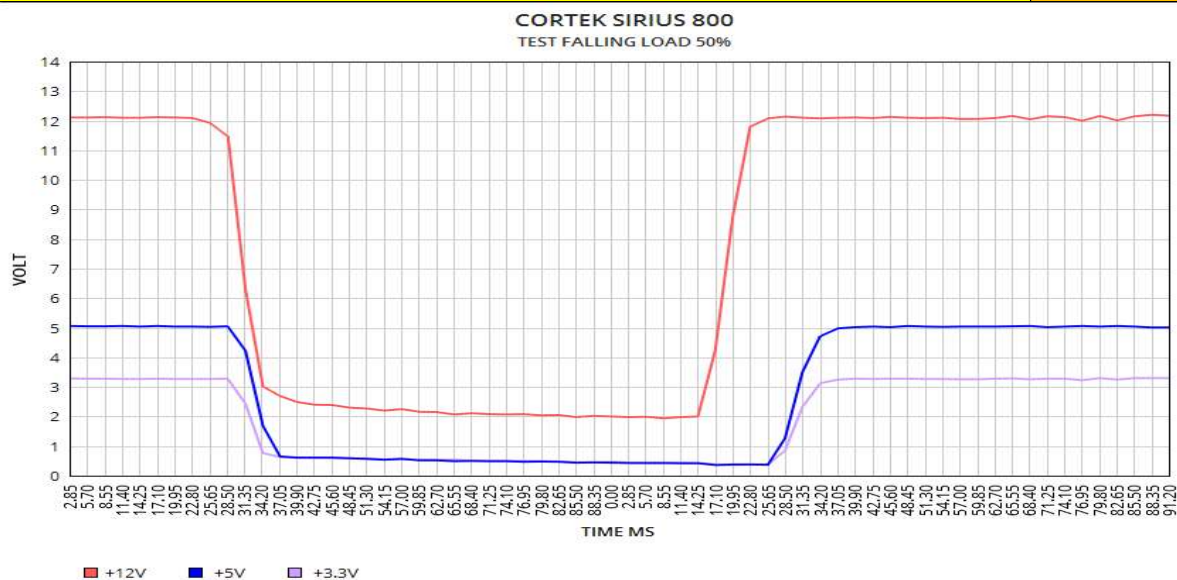
Rating: 5.44/10



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Falling (Voltage) - Value [+12V-29A]-[+5V-5A]-[+3.3V-5A]-[+5Vsb-1A]

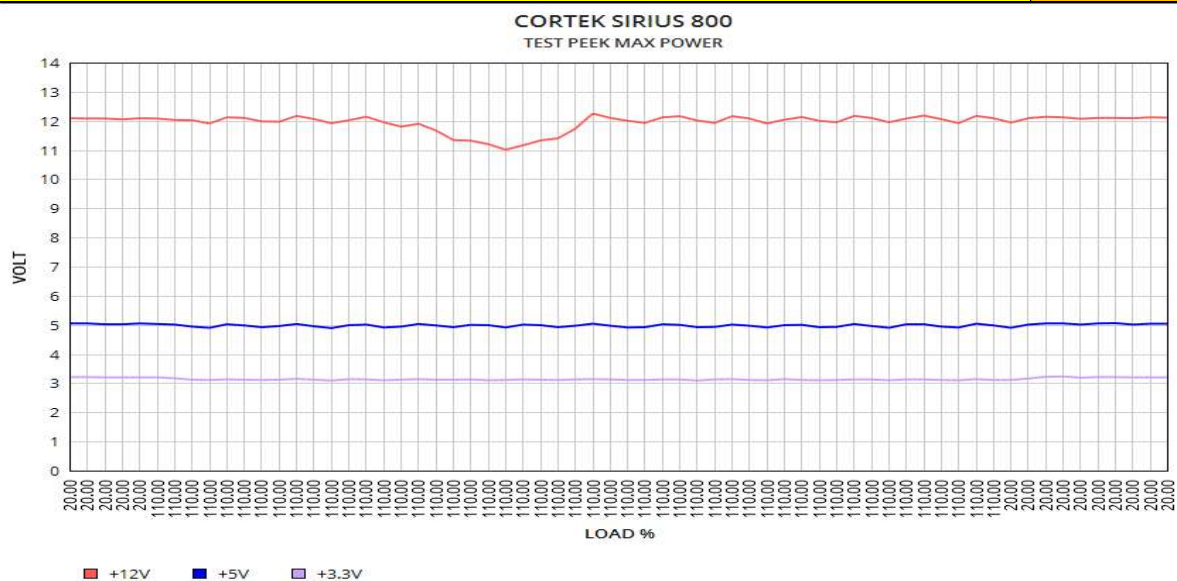
Rating: 6.96/10



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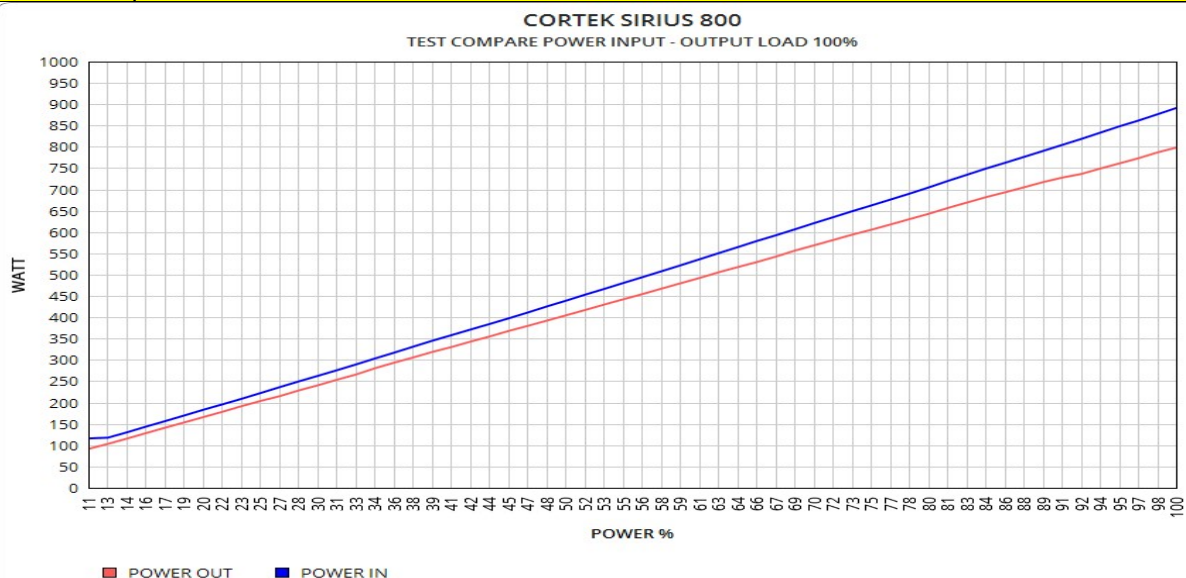
Peek (Voltage) - Value [+12V-59A]-[+5V-10A]-[+3.3V-11A]-[+5Vsb-2A]

Rating: 7.27/10



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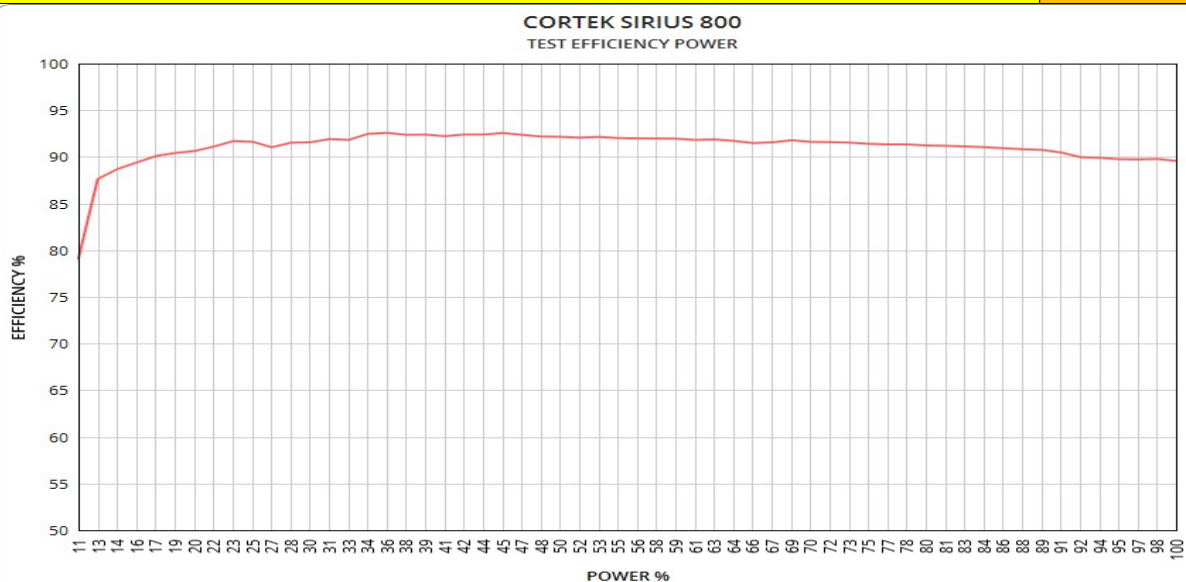
Compare Input and Output Power



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Efficiency Power Supply

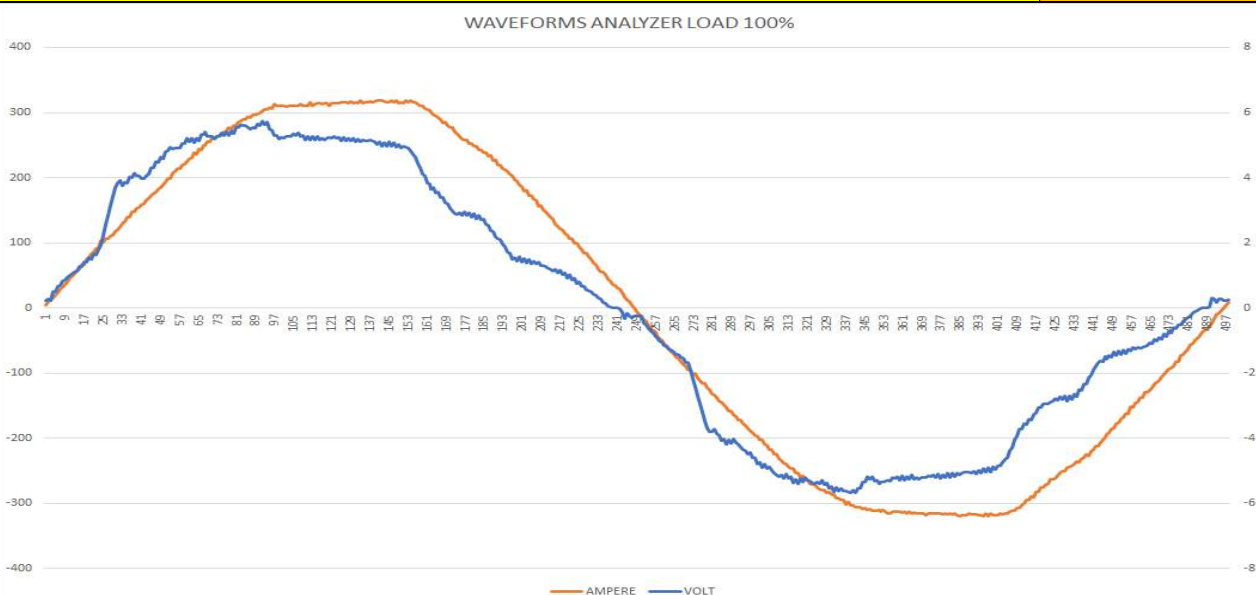
Rating: 8/10



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Compare Current and Voltage Waveforms

Rating:



Efficiency Report									
Watt In	I-rms	PF	Load %	+12V/A	+5V/A	+3.3V/A	+5Vsb/A	Watt Out	Efficiency
230V AC									
166.83	0.888	0.80	20%	12.1/10.9	5.1/2.0	3.3/1.9	5.1/0.54	152.04	91.13%
430.37	2.015	0.92	50%	12.1/29.2	5.0/5.0	3.3/4.9	5.0/1.0	400.36	93.03%
898.50	4.009	0.96	100%	12.0/59.2	5.0/9.9	3.1/10.8	4.9/2.0	807.67	89.89%
120V AC									
166.51	1.377	0.96	20%	12.1/10.9	5.0/1.9	3.3/1.9	5.1/0.54	152.17	91.38
435.35	3.607	0.98	50%	12.1/29.1	5.0/5.0	3.3/4.9	5.0/1.0	400.04	91.89
924.59	7.714	0.99	100%	12.1/59.2	5.0/9.8	3.1/10.8	4.9/2.0	807.04	87.28
Standby Power IEC62301-2011 (MAX 0.5W)							PASS	0.148W	