

Testing Report - Performance - Efficiency

Date 27/12/2018

Efficiency Load 50%

96.03

Everange Efficiency Load 10% - 100%

95.15

General Evaluation

92.67/100

Manufacturer	Seasonic
Model	SSR-750TR
Serial	-
Type	ATX 12V 2.92 / V2.31
PFC	Active

Specification		Value		
Input Voltage (Volt AC)		100-240		
Input Current (Ampere)		9.5A - 4.5A		
Input Frequency (Hz)		50/60		
Output Power (Watt)		750		
	Ampere	Watt	Watt Tot	
Output +12V	62A	744W	750W	
Output +5V	20A	100W		
Output +3.3V	20A	100W		
Output +5Vsb	3A	15W		
Output -12V	0.3A	3.6W		



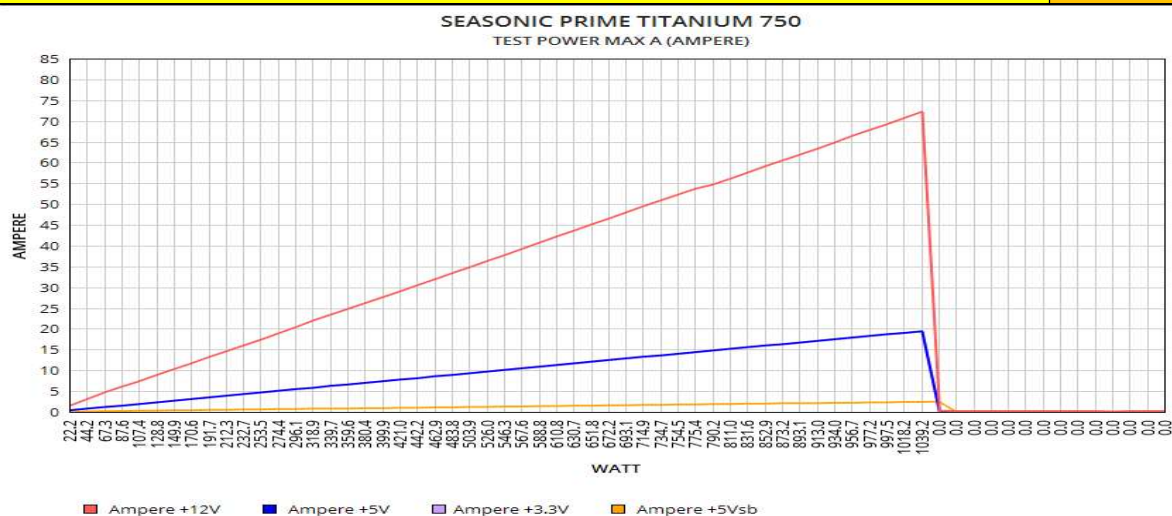
750 W

Measurement conditions (pure sine wave):

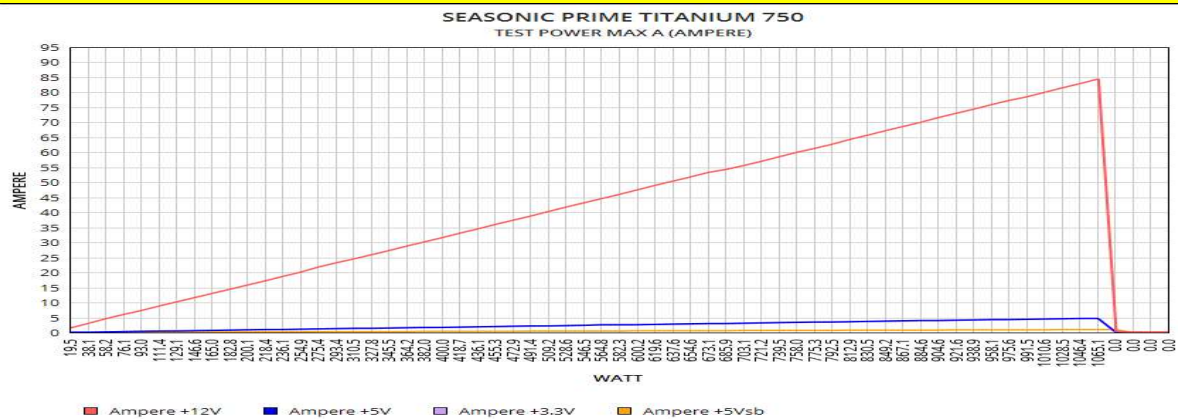
220V / 50Hz

Power Max Ampere A - Value [+12V-93A]-[+5V-25A]-[+3.3V-25A]-[+5Vsb-3A]

Rating: 8.10

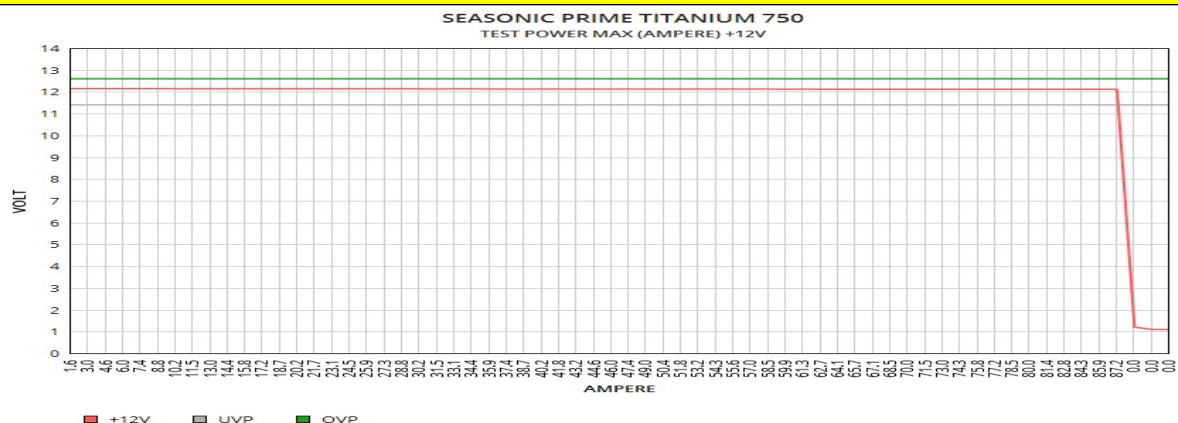


Power Max Ampere B - Value [+12V-93A]-[+5V-5A]-[+3.3V-5A]-[+5Vsb-1A]



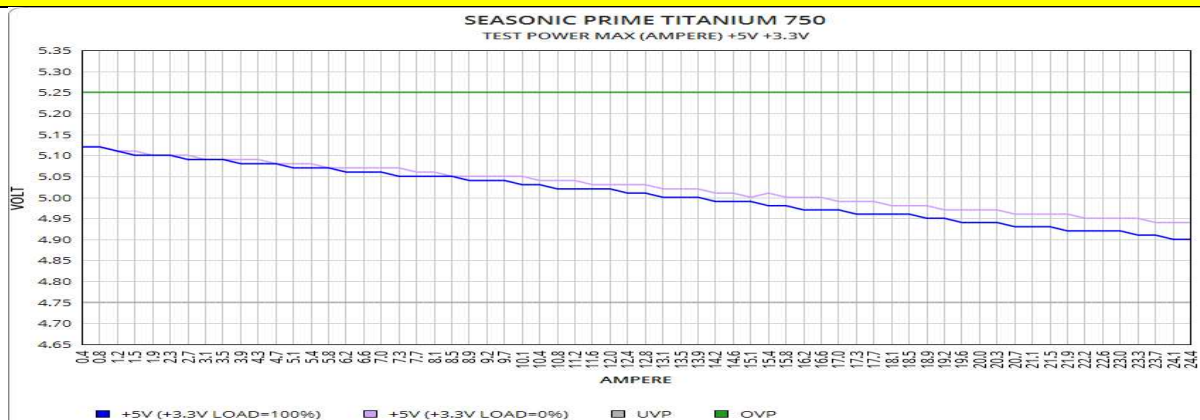
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Power Max Ampere 12V - Value [+12V-93A]-[+5V-0A]-[+3.3V-0A]-[+5Vsb-0A]



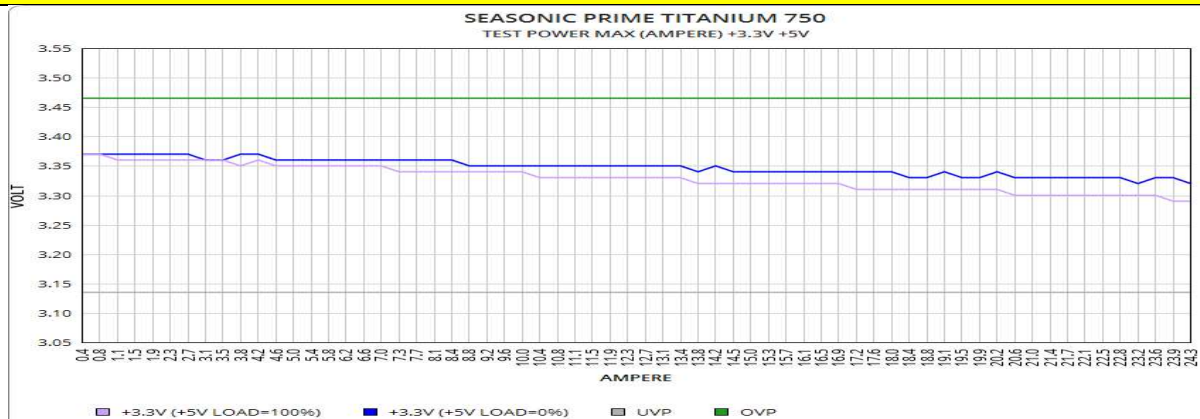
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Power Max Ampere 5V - Value [+12V-0A]-[+5V-25A]-[+3.3V-0A]-[+5Vsb-0A]



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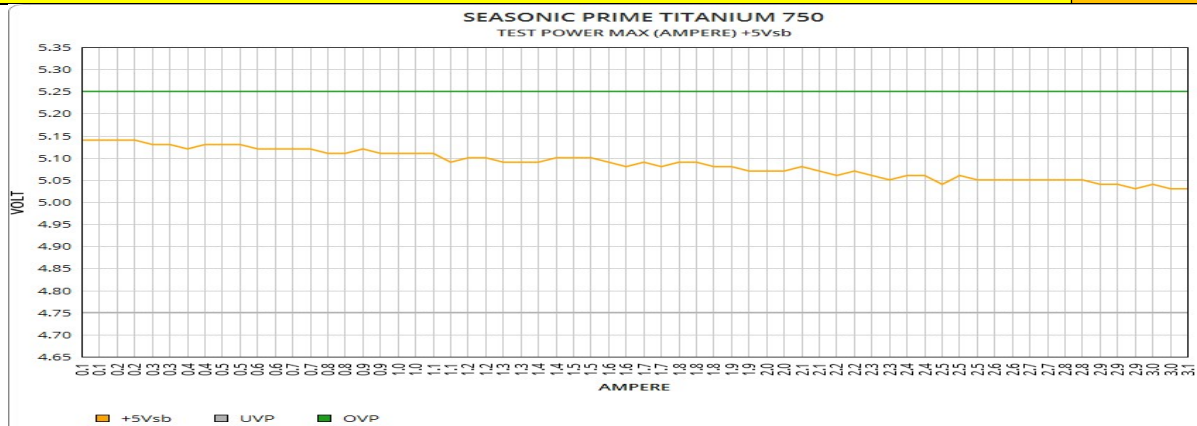
Power Max Ampere 3.3V - Value [+12V-0A]-[+5V-0A]-[+3.3V-25A]-[+5Vsb-0A]



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

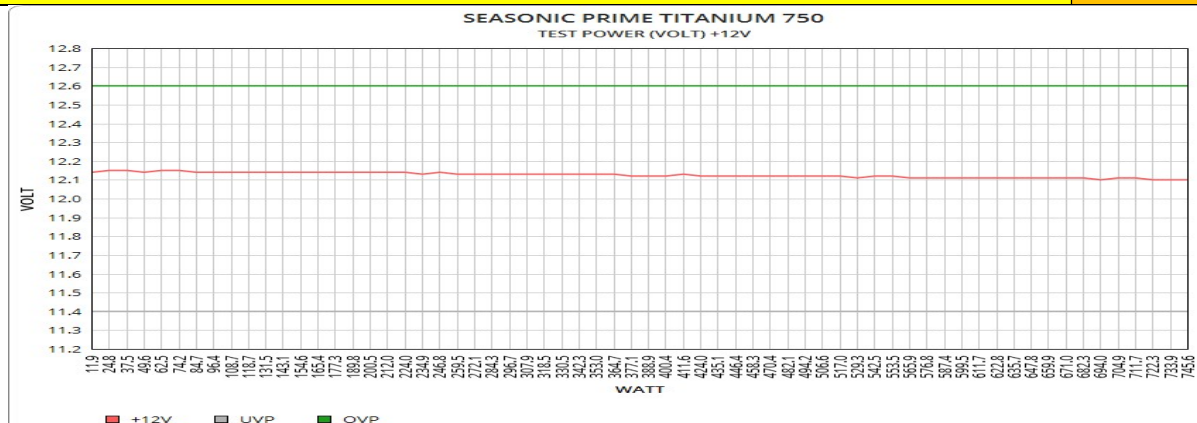
Rating: 8.63



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Power (Voltage 12V) - Value [+12V-58A]-[+5V-6A]-[+3.3V-6A]-[+5Vsb-1A]

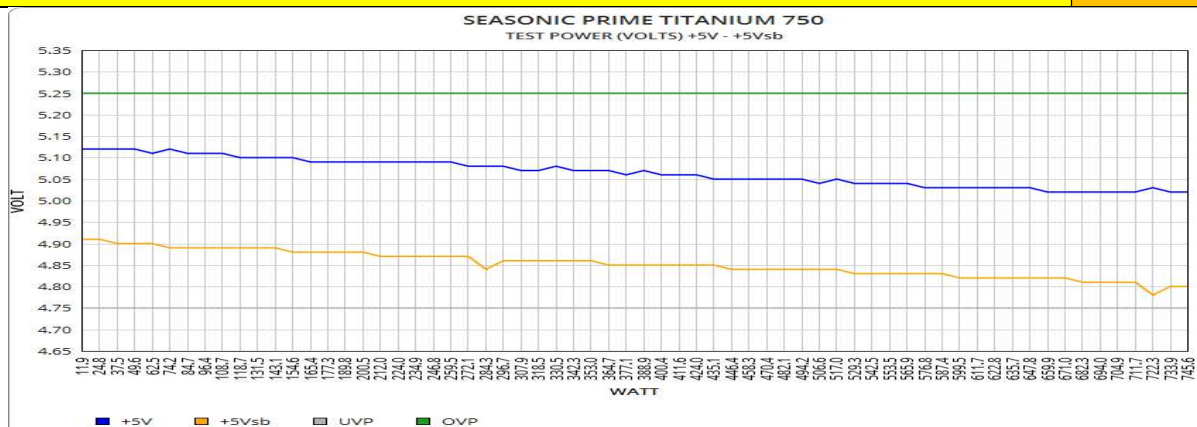
Rating: 9.89



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Power (Voltage 5V + 5Vsb) - Value [+12V-58A]-[+5V-6A]-[+3.3V-6A]-[+5Vsb-1A]

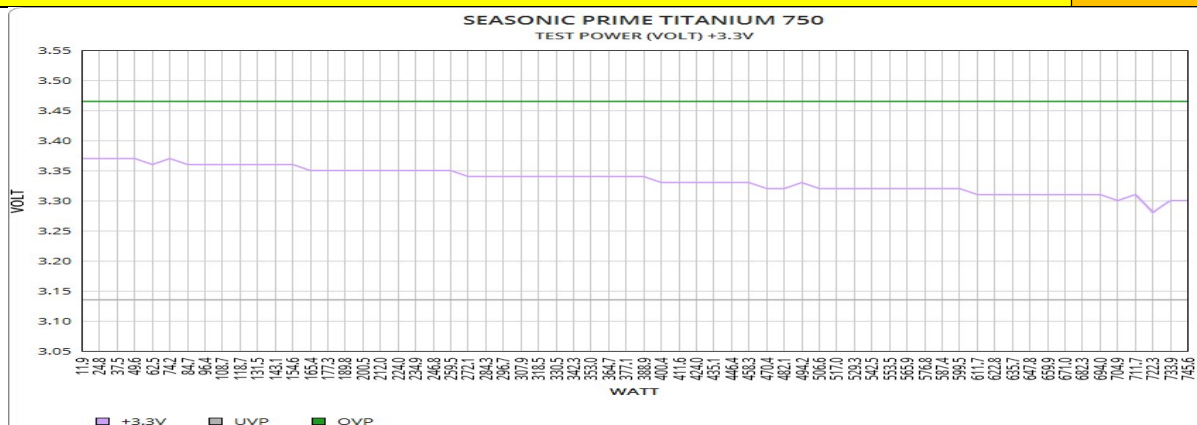
Rating: 9.29



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Power (Voltage 3.3V) - Value [+12V-58A]-[+5V-6A]-[+3.3V-6A]-[+5Vsb-1A]

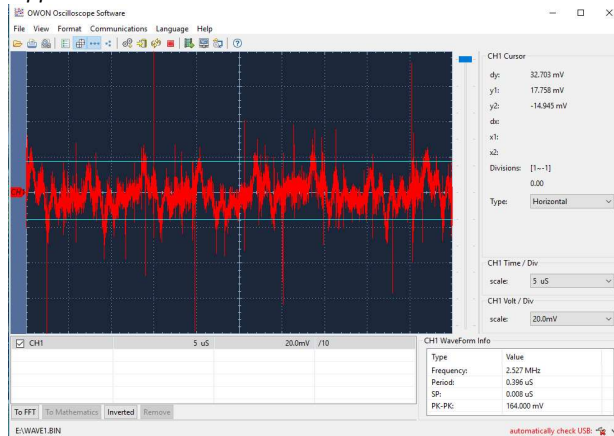
Rating: 9.29



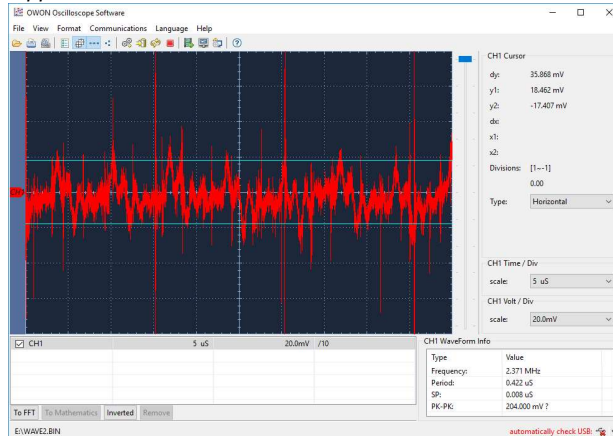
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Ripple (Voltage Pk-Pk) - Value [+12V-32A]-[+5V-5A] - [+3.3V-5A]-[+5Vsb-0.1A]

Ripple +12V – 32.70 mV

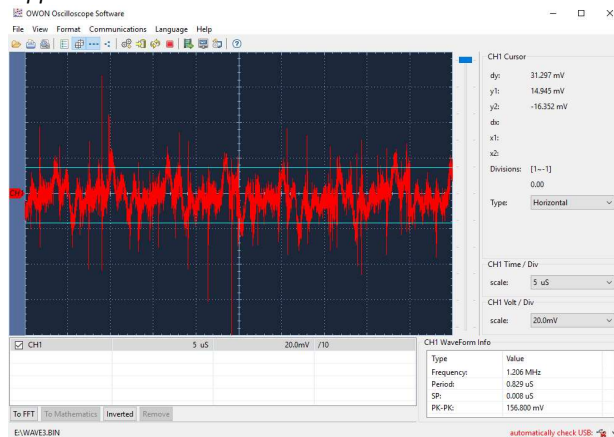


Ripple +5V – 35.86 mV

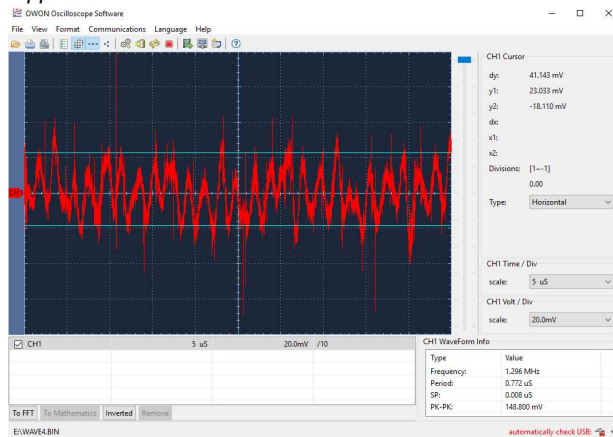


Ripple (Voltage Pk-Pk) - Value [+12V-32A]-[+5V-5A] - [+3.3V-5A]-[+5Vsb-0.1A]

Ripple +3.3V – 31.29 mV

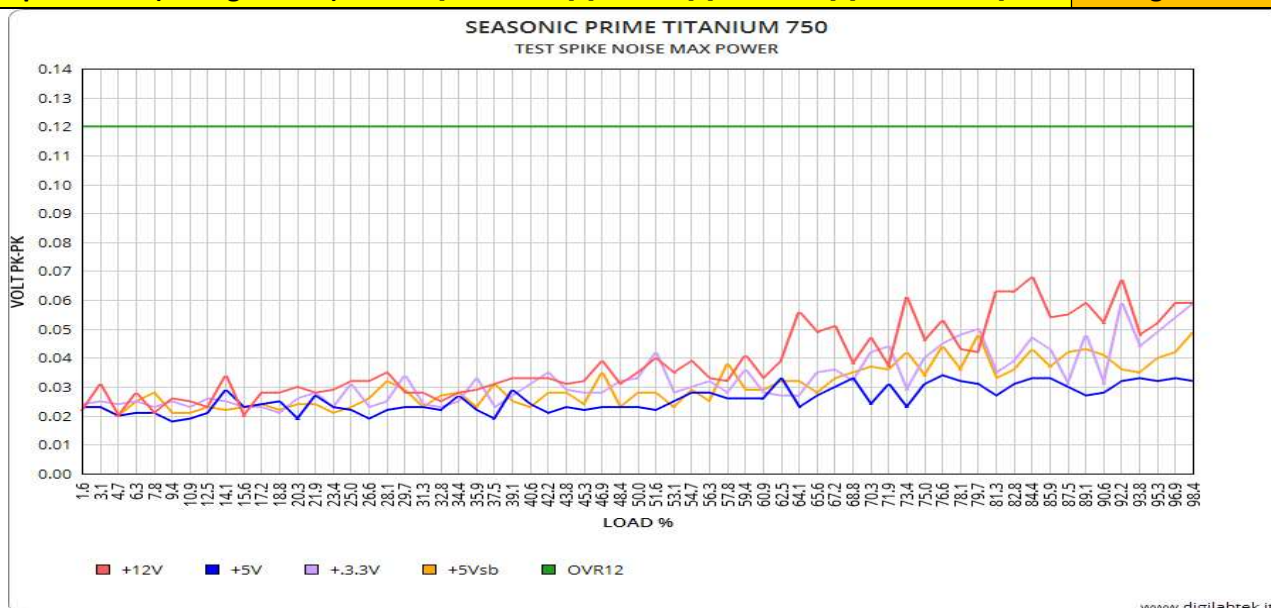


Ripple +5Vsb – 41.14 mV



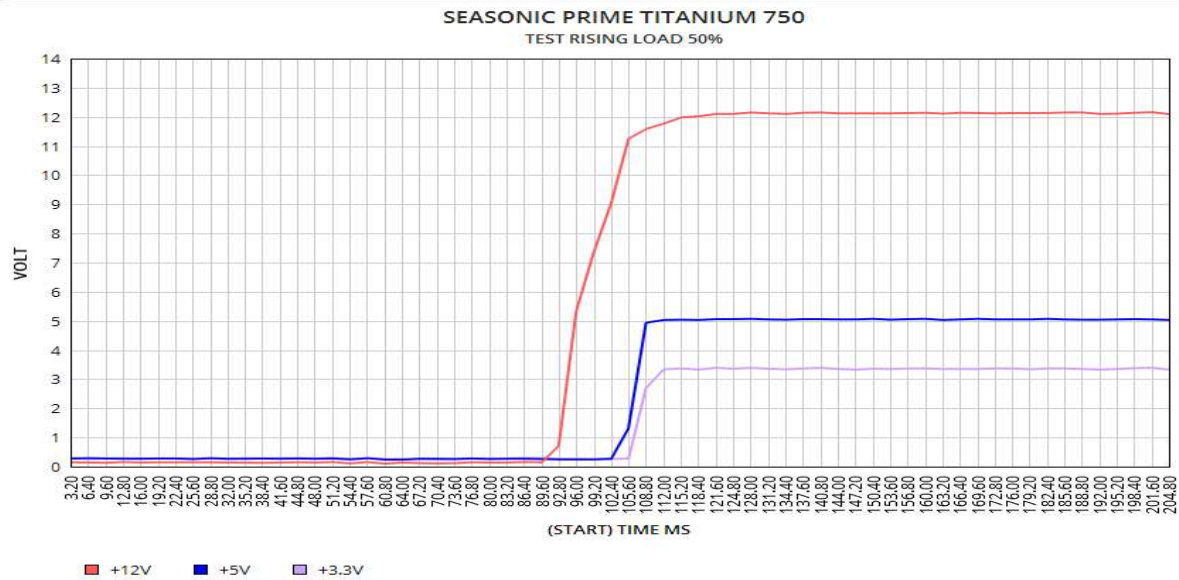
Spike noise (Voltage Pk-Pk) - Value [+12V-58A]-[+5V-6A]-[+3.3V-6A]-[+5Vsb-0.1A]

Rating: 8.71



Rising (Voltage) - Value [+12V-29A]-[+5V-3A]-[+3.3V-3A]-[+5Vsb-0.5A]

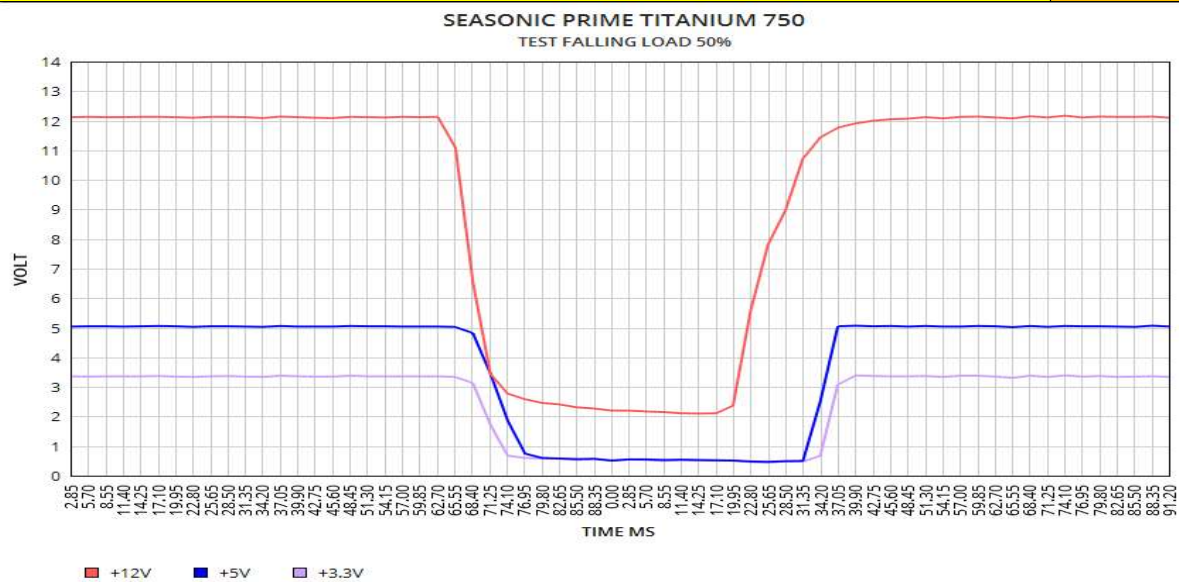
Rating: 3.88



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Falling (Voltage) - Value [+12V-29A]-[+5V-3A]-[+3.3V-3A]-[+5Vsb-0.5A]

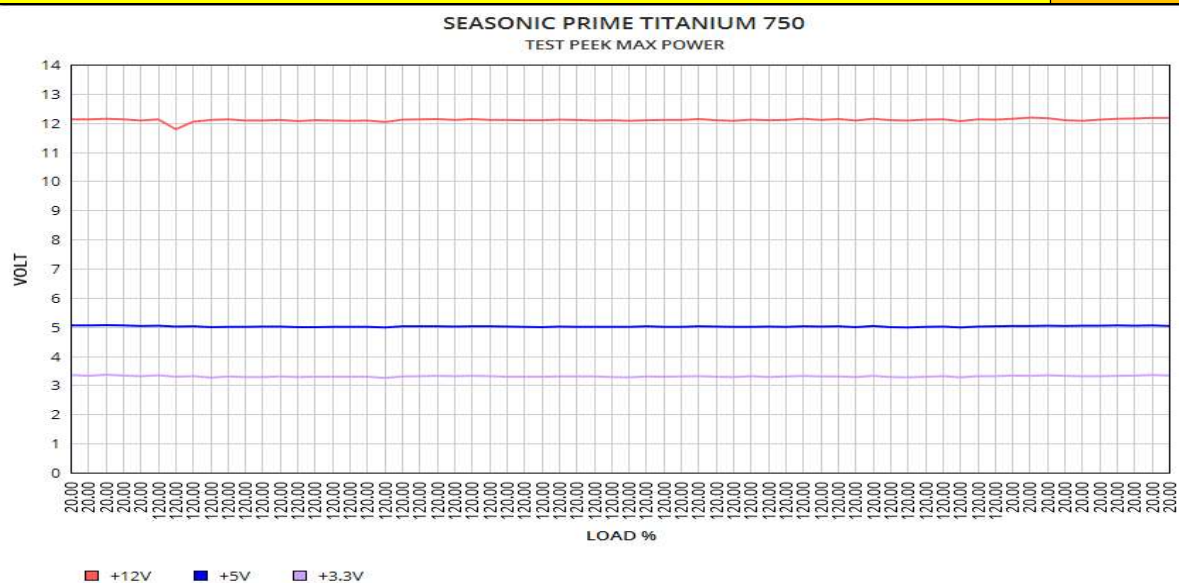
Rating: 9.88



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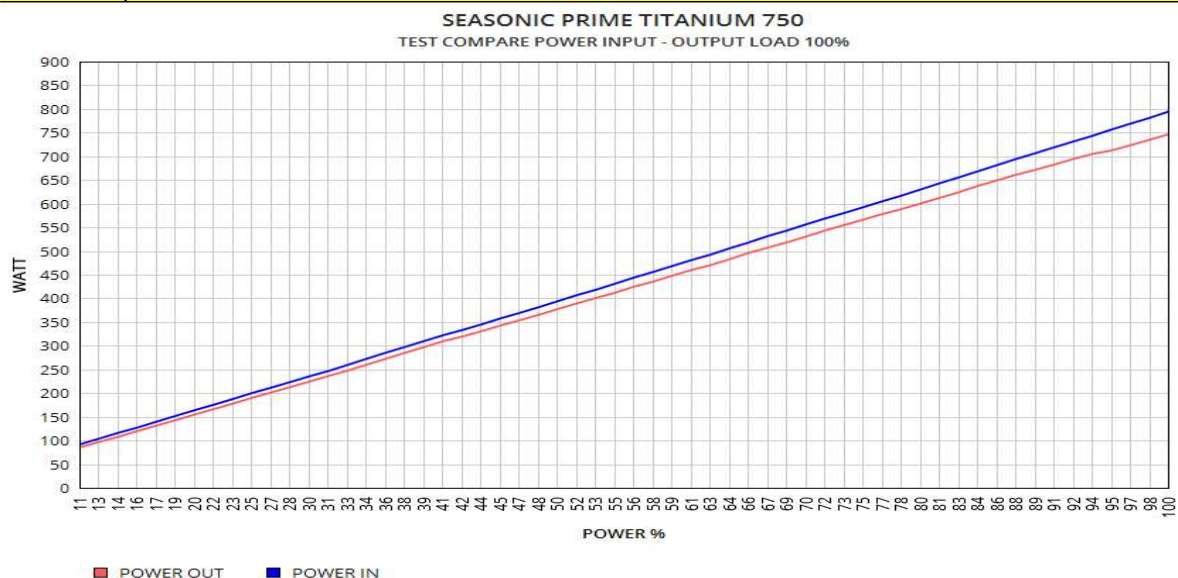
Peek (Voltage) - Value [+12V-58A]-[+5V-6A]-[+3.3V-6A]-[+5Vsb-1A]

Rating: 9.15



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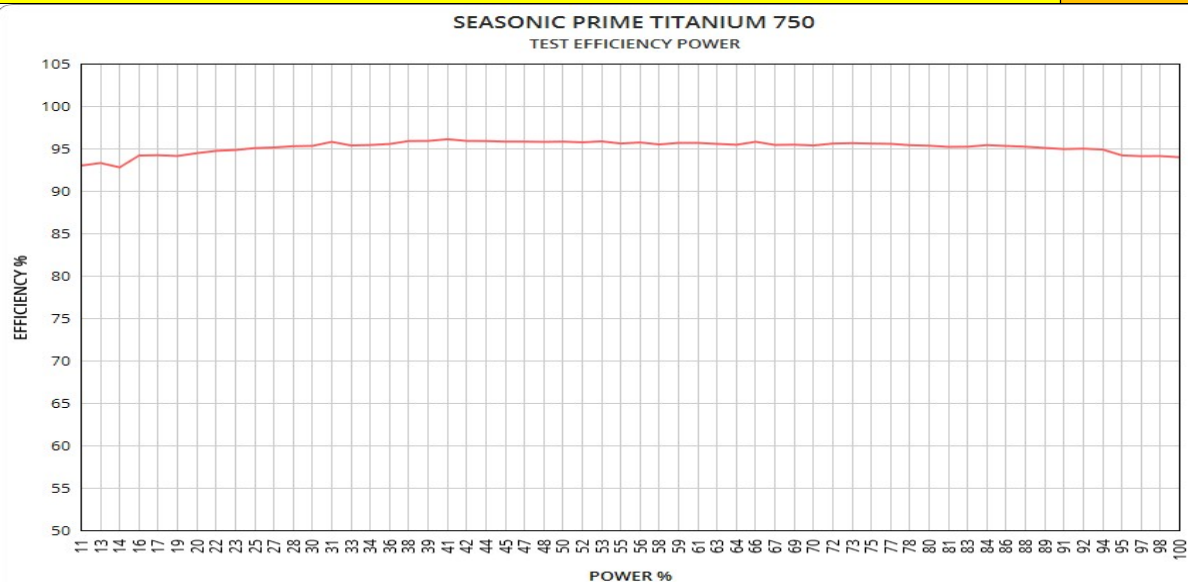
Compare Input and Output Power



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Efficiency Power Supply

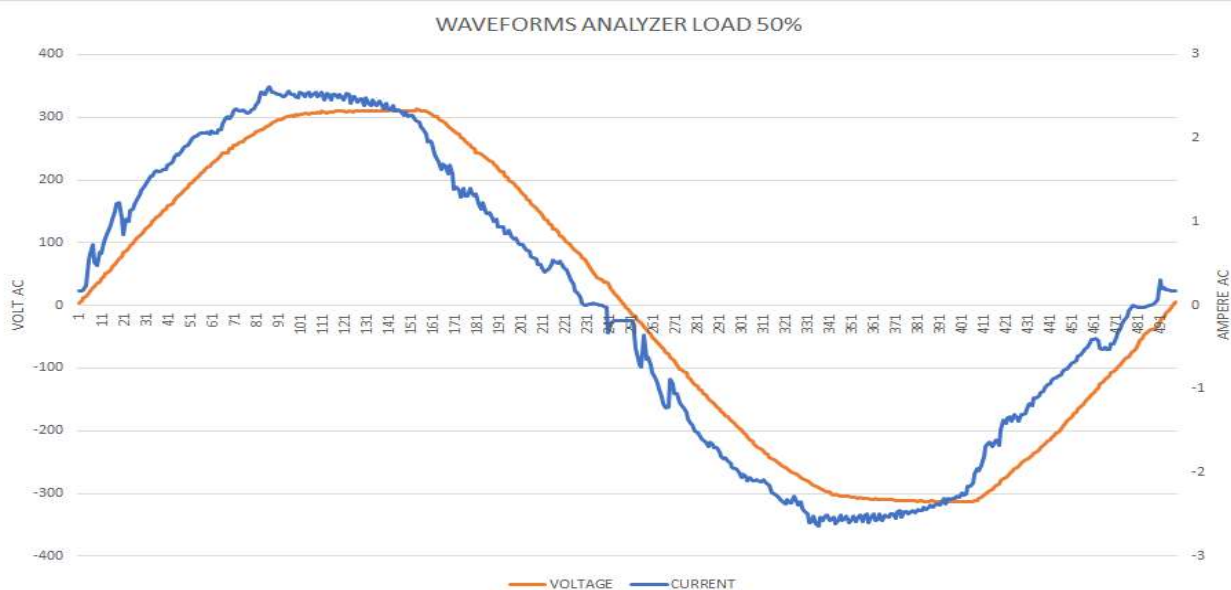
Rating: 10



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Current and Voltage Waveforms Value [+12V-29A]-[+5V-3A]-[+3.3V-3A]-[+5Vsb-0.5A]

Rating:



Efficiency Report 220V AC / 50Hz

Watt In	I-rms	PF	Load %	+12V/A	+5V/A	+3.3V/A	+5Vsb/A	Watt Out	Efficiency
85.96	0.474	0.79	10%	12.15/6.19	5.1/0.49	3.3/0.50	4.9/0.11	79.94	92.99%
163.12	0.793	0.90	20%	12.12/12.0	5.1/1.00	3.3/0.99	4.9/0.22	155.12	95.09%
391.78	1.772	0.97	50%	12.13/28.8	5.1/2.94	3.3/3.00	4.8/0.54	376.24	96.03%
793.92	3.532	0.99	100%	12.10/57.2	5.0/6.07	3.3/6.03	4.8/1.08	747.25	94.12%

Watt In	I-rms	PF	Load %	Standby Efficiency +5Vsb/A				Watt Out	Efficiency
3.63	0.152	-	20%	5.14/0.55				2.81	77.41%
10.44	0.194	0.22	50%	5.08/1.61				8.20	78.54%
20.27	0.259	0.35	100%	5.08/3.11				15.83	78.09%

Standby Power IEC62301-2011 (MAX 0.5W)

PASS

0.220W

Conclusions

Positive notes:

-
-
-

Negative notes:

-
-
-