

Testing Report - Performance - Efficiency

Date 16/09/2019

Efficiency Load 50%

93.09

Everange Efficiency Load 10% - 100%

91.51

General Evaluation

81.81/100

Manufacturer	Sharkoon
Model	WPM550GOLD
Serial	-
Type	ATX 2.3
PFC	Active

Specification		Value		
Input Voltage (Volt AC)		100-240		
Input Current (Ampere)		8 A		
Input Frequency (Hz)		47/63		
Output Power (Watt)		550		
	Ampere	Watt	Watt Tot	
Output +12V	45A	540W	550W	
Output +5V	20A	110W		
Output +3.3V	20A			
Output +5Vsb	2.5A	12.5W		
Output -12V	0.3A	3.6W		

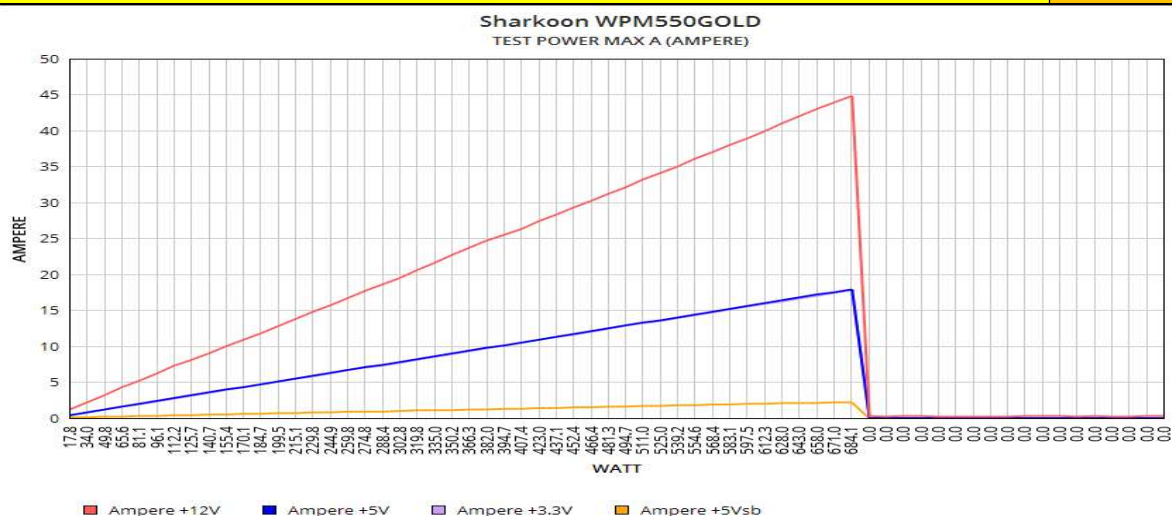


Measurement conditions (pure sine wave):

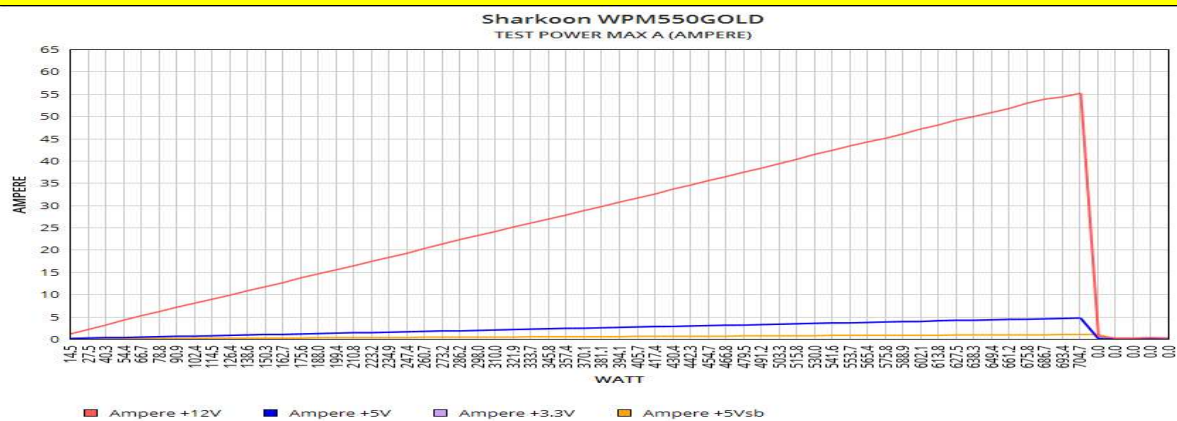
220V / 50Hz

Power Max Ampere A - Value [+12V-65A]-[+5V-25A]-[+3.3V-25A]-[+5Vsb-3A]

Rating: 7.40

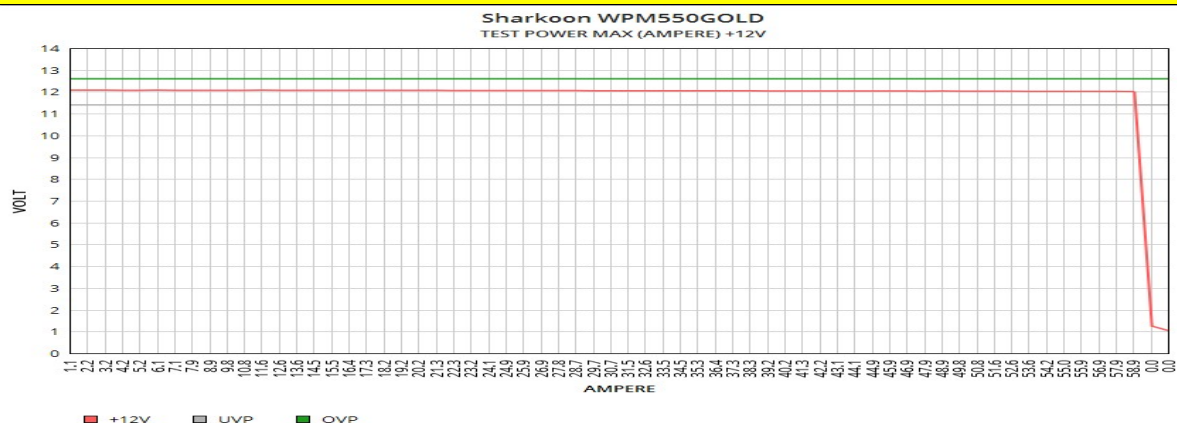


Power Max Ampere B - Value [+12V-65A]-[+5V-5A]-[+3.3V-5A]-[+5Vsb-1A]



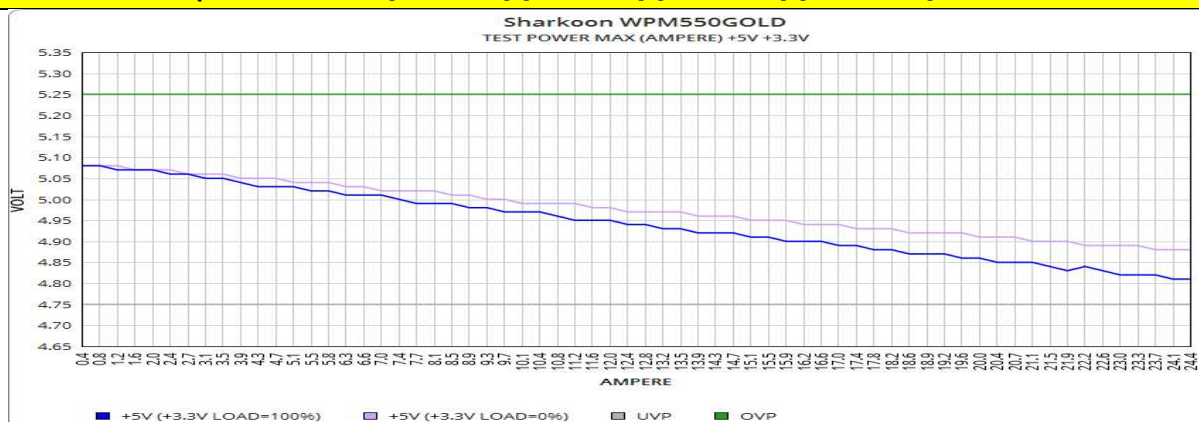
www.digitalelek.it

Power Max Ampere 12V - Value [+12V-65A]-[+5V-0A]-[+3.3V-0A]-[+5Vsb-0A]



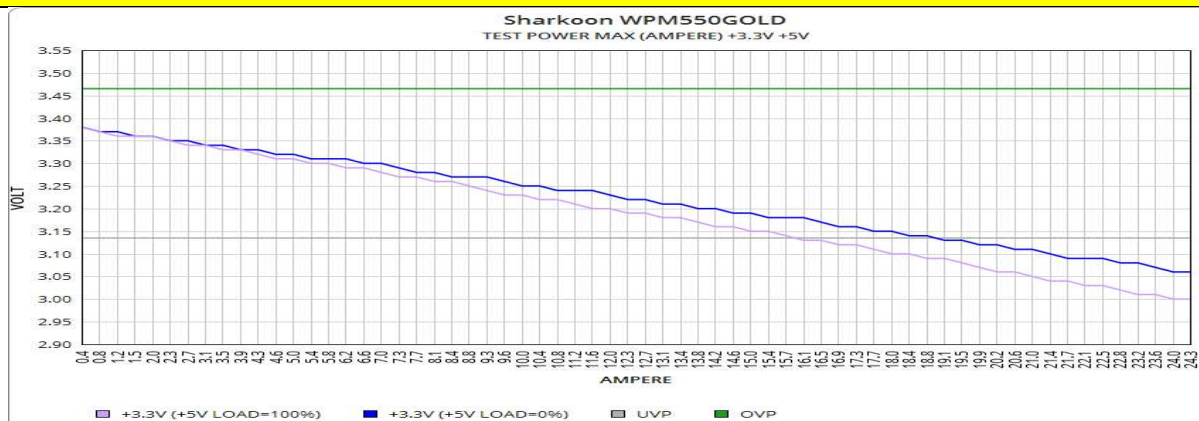
www.digitalelek.it

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



www.digitalelek.it

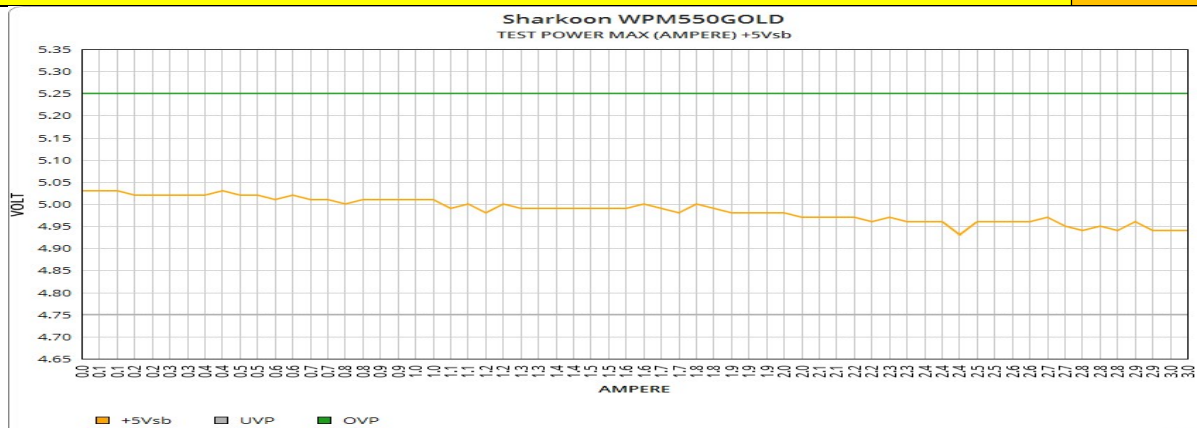
Power Max Ampere 3.3V - Value [+12V-0A]-[+5V-0A]-[+3.3V-25A]-[+5Vsb-0A]



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

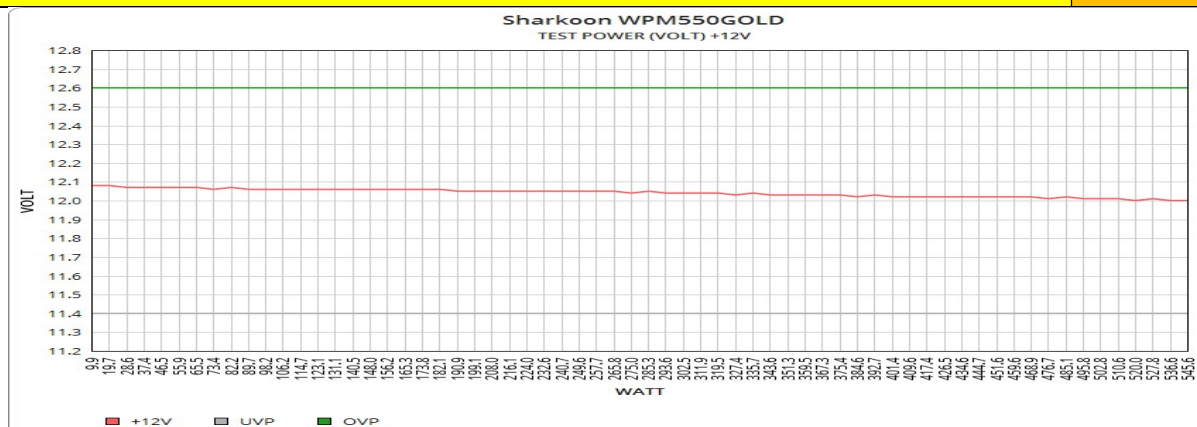
Rating: 8.33



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Power (Voltage 12V) - Value [+12V-41A]-[+5V-6A]-[+3.3V-6A]-[+5Vsb-1A]

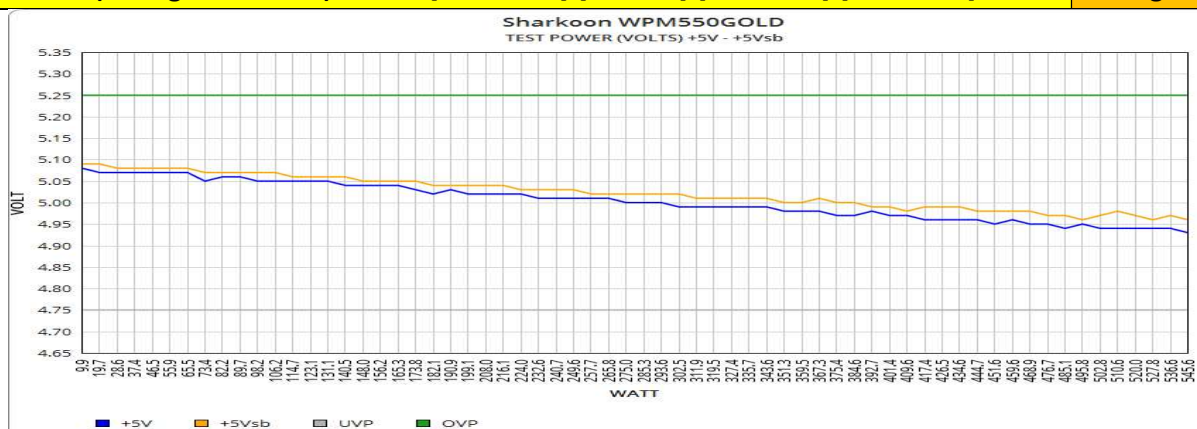
Rating: 9.75



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Power (Voltage 5V + 5Vsb) - Value [+12V-41A]-[+5V-6A]-[+3.3V-6A]-[+5Vsb-1A]

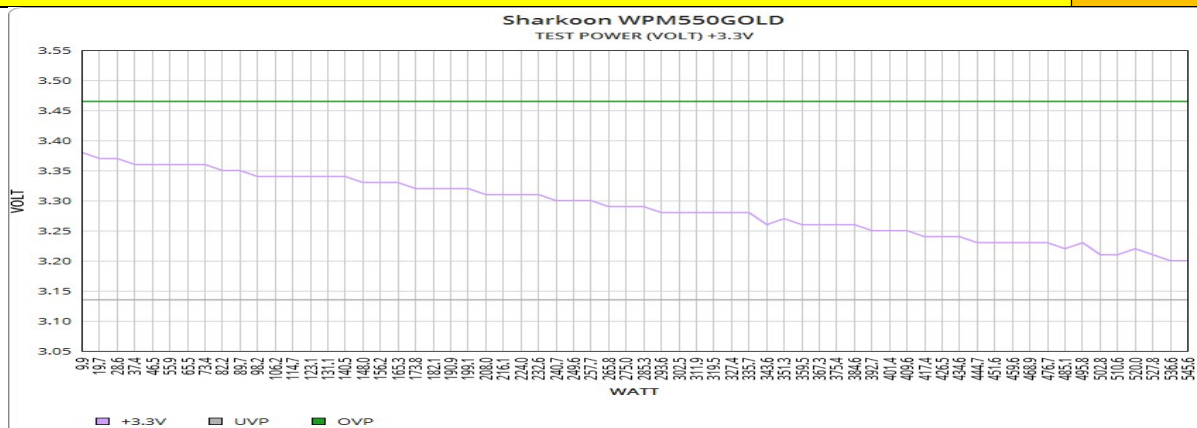
Rating: 9.26



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Power (Voltage 3.3V) - Value [+12V-41A]-[+5V-6A]-[+3.3V-6A]-[+5Vsb-1A]

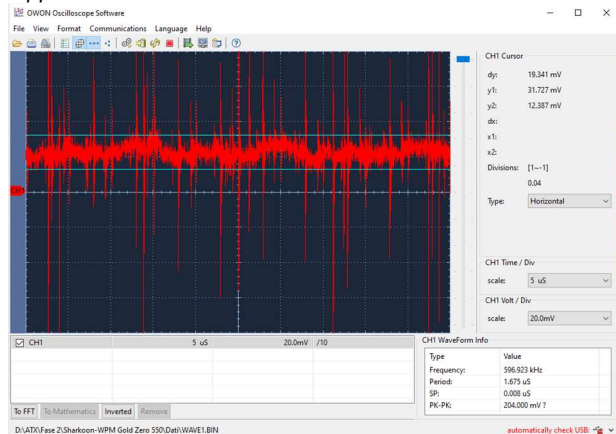
Rating: 8.23



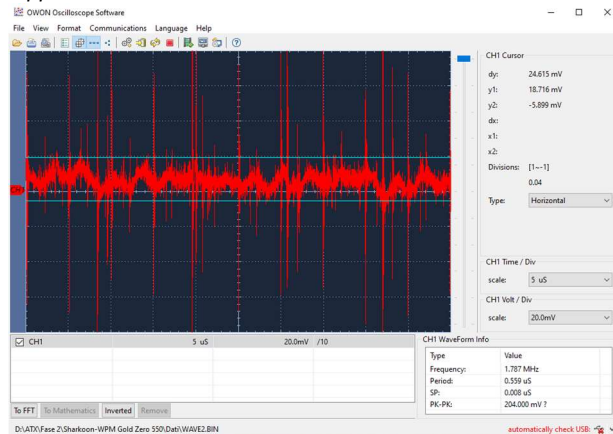
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Ripple (Voltage Pk-Pk) - Value [+12V-19A]-[+5V-3A] - [+3.3V-3A]-[+5Vsb-0.1A]

Ripple +12V – 19.34 mV

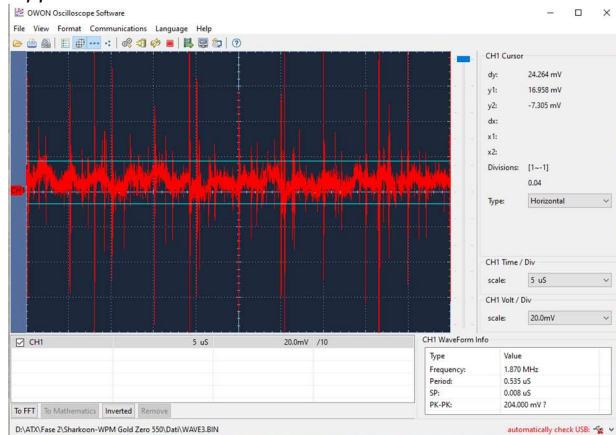


Ripple +5V – 24.61 mV

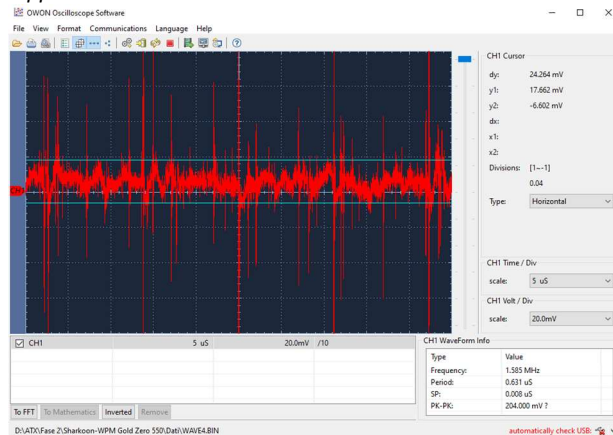


Ripple (Voltage Pk-Pk) - Value [+12V-19A]-[+5V-3A] - [+3.3V-3A]-[+5Vsb-0.1A]

Ripple +3.3V – 24.26 mV

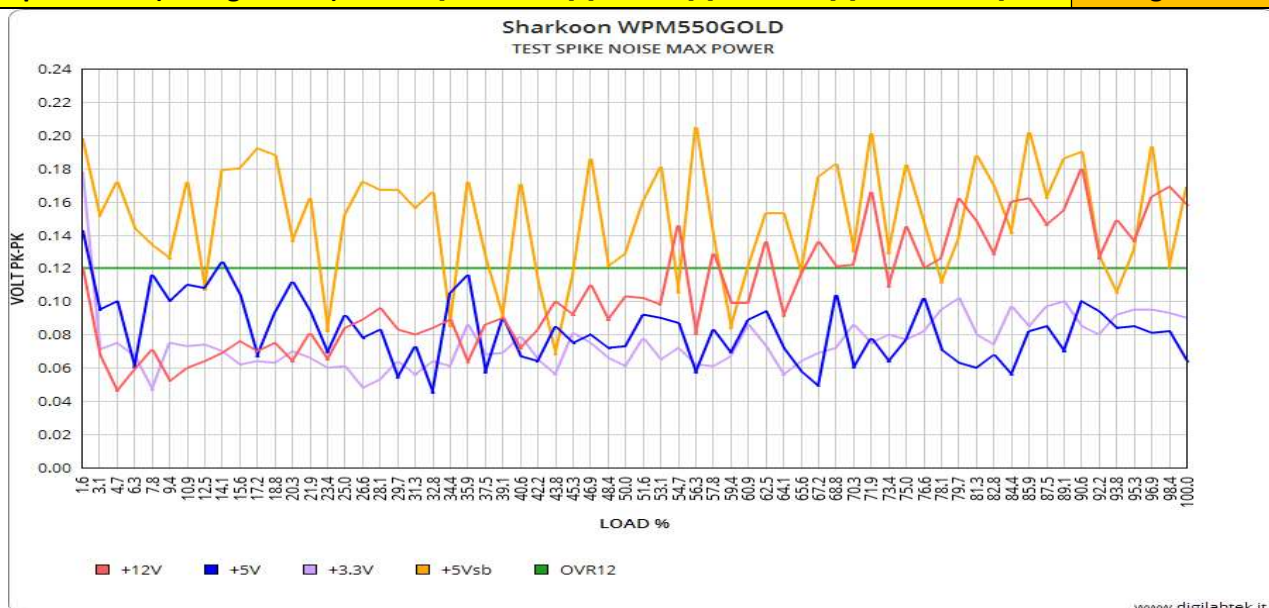


Ripple +5Vsb – 24.26 mV



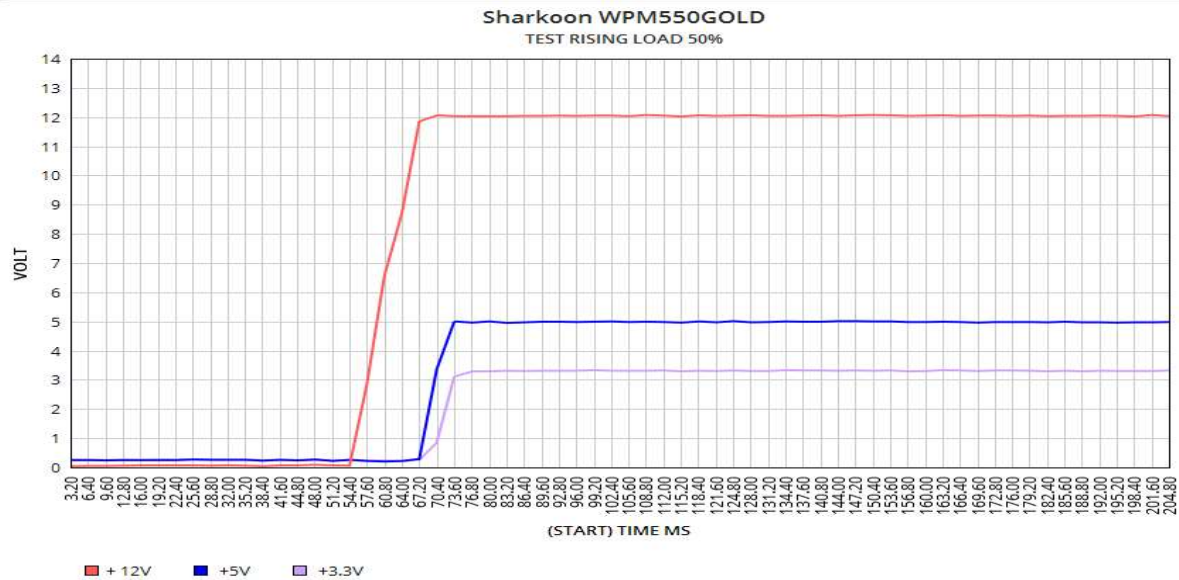
Spike noise (Voltage Pk-Pk) - Value [+12V-41A]-[+5V-3A]-[+3.3V-3A]-[+5Vsb-0.1A]

Rating: 8.81



Rising (Voltage) - Value [+12V-19A]-[+5V-3A]-[+3.3V-3A]-[+5Vsb-0.5A]

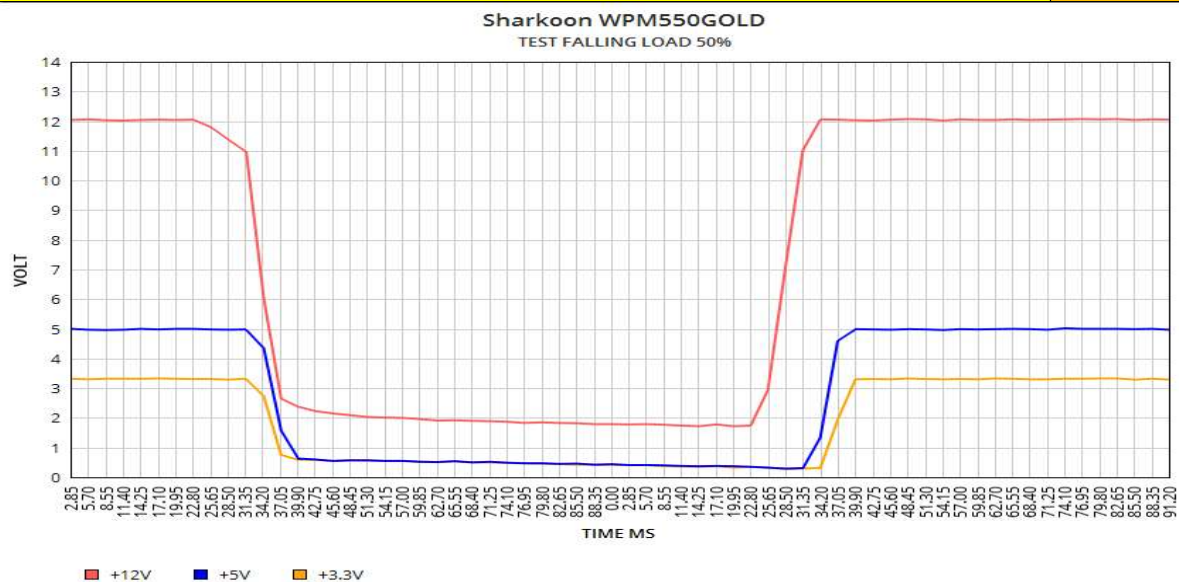
Rating: 6.06



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Falling (Voltage) - Value [+12V-19A]-[+5V-3A]-[+3.3V-3A]-[+5Vsb-0.5A]

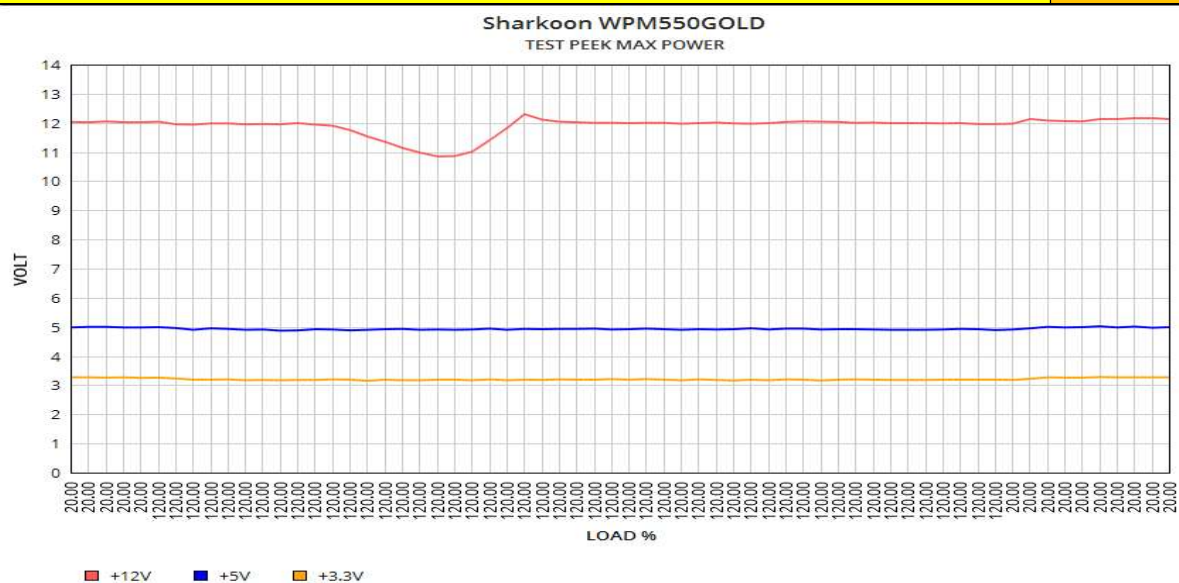
Rating: 7.25



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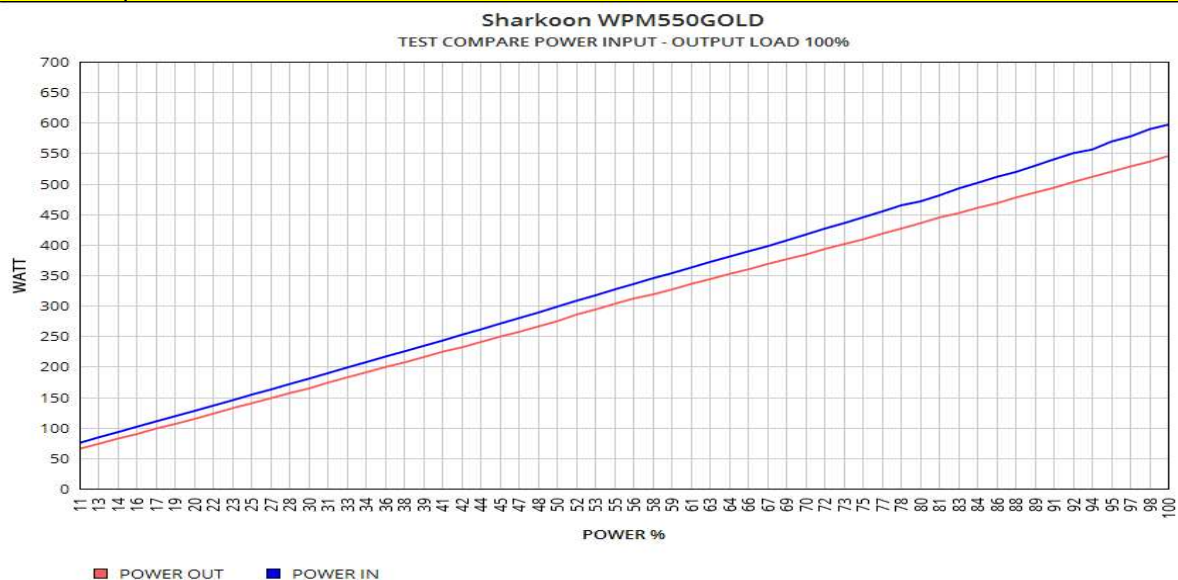
Peek (Voltage) - Value [+12V-41A]-[+5V-6A]-[+3.3V-6A]-[+5Vsb-1A]

Rating: 7.48



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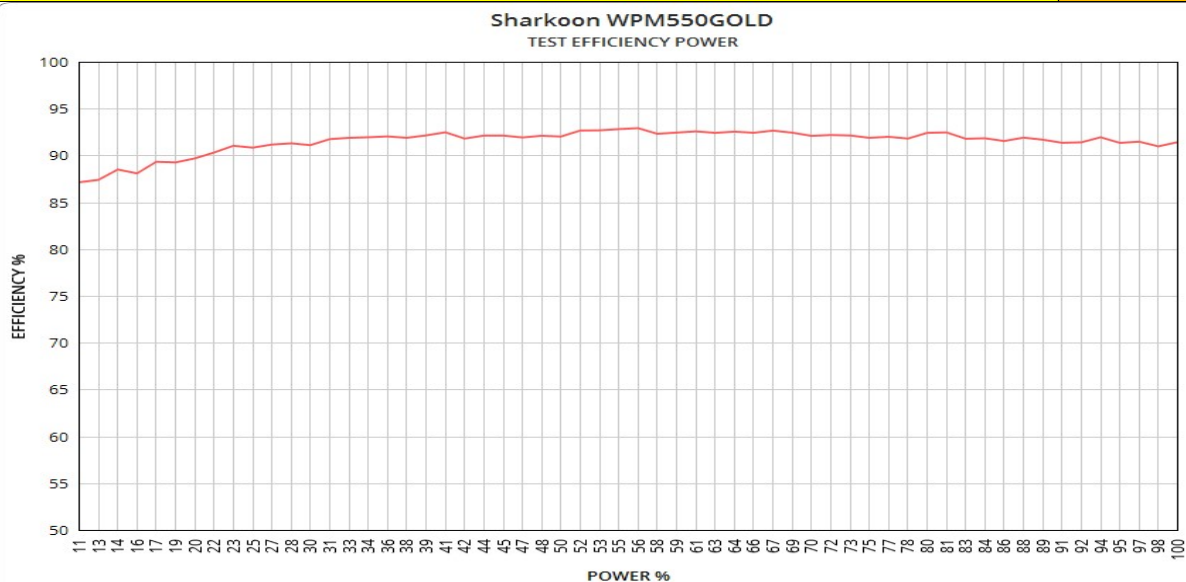
Compare Input and Output Power



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Efficiency Power Supply

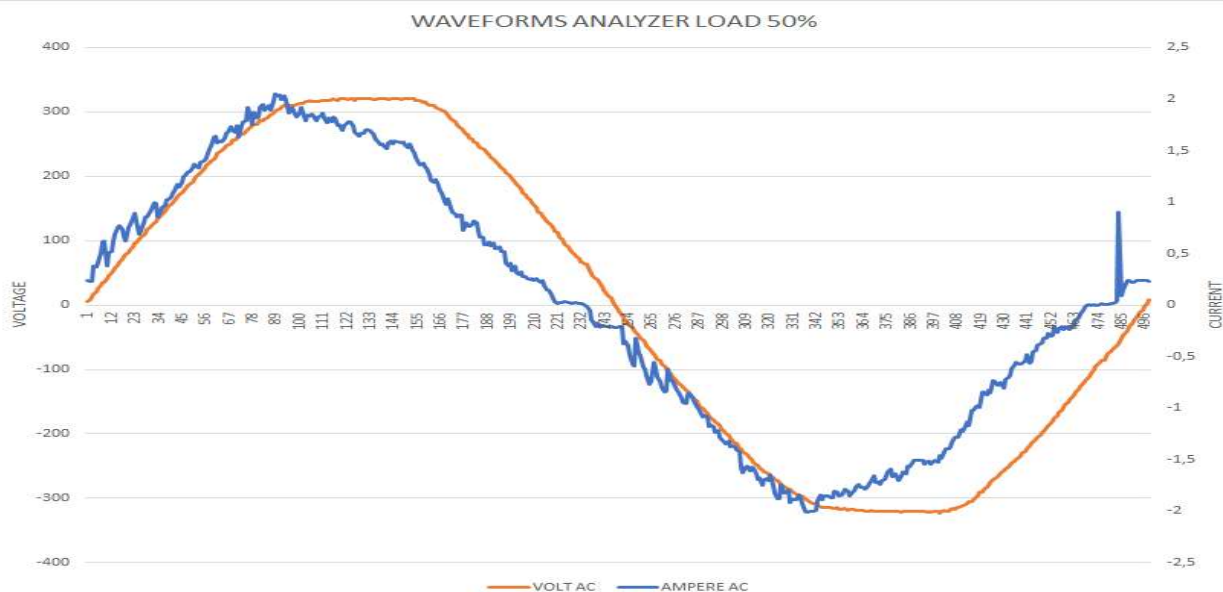
Rating: 8



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Current and Voltage Waveforms Value [+12V-19A]-[+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
-	-	-	10%	-	-	-	-	-	-
119.77	0.588	0.87	20%	12.07/8.29	5.0/1.02	3.3/1.01	5.1/0.22	109.78	91.66%
276.73	1.264	0.95	50%	12.04/19.1	5.0/3.05	3.3/3.00	5.0/0.55	257.62	93.09%
595.82	2.674	0.97	100%	11.99/40.9	4.9/6.10	3.2/6.06	5.0/1.10	545.77	91.60%

Watt In	I-rms	PF	Load %	Standby Efficiency +5Vsb/A	Watt Out	Efficiency
-	-	-	20%	-/-	-	-%
-	-	-	50%	-/-	-	-%
-	-	-	100%	-/-	-	-%

Standby Power IEC62301-2011 (MAX 0.5W)

PASS

-W

Conclusions

Positive notes:

-
-
-

Negative notes:

-
-
-