

Testing Report - Performance - Efficiency

Date 24/06/2018

Efficiency Load 50%

71.10

Everange Efficiency Load 10% - 100%

68.36

General Evaluation

53.41/100

Manufacturer	ITek
Model	ATX 500ATX
Serial	-
Type	ATX
PFC	NONE

Specification	Value	
Input Voltage (Volt AC)	115-230	
Input Current (Ampere)	5/2.5	
Input Frequency (Hz)	50/60	
Output Power (Watt)	500	
	Ampere	Watt
Output +12V	16A	500W
Output +5V	48A	
Output +3.3V	32A	
Output +5Vsb	2A	
Output -12V	0.8A	

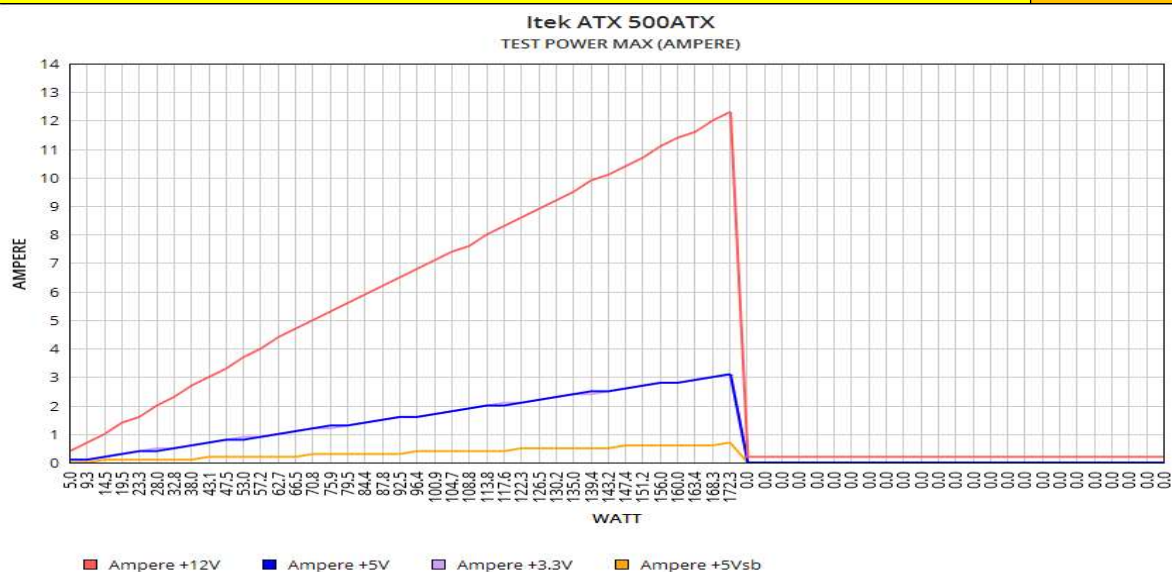


Measurement conditions (pure sine wave):

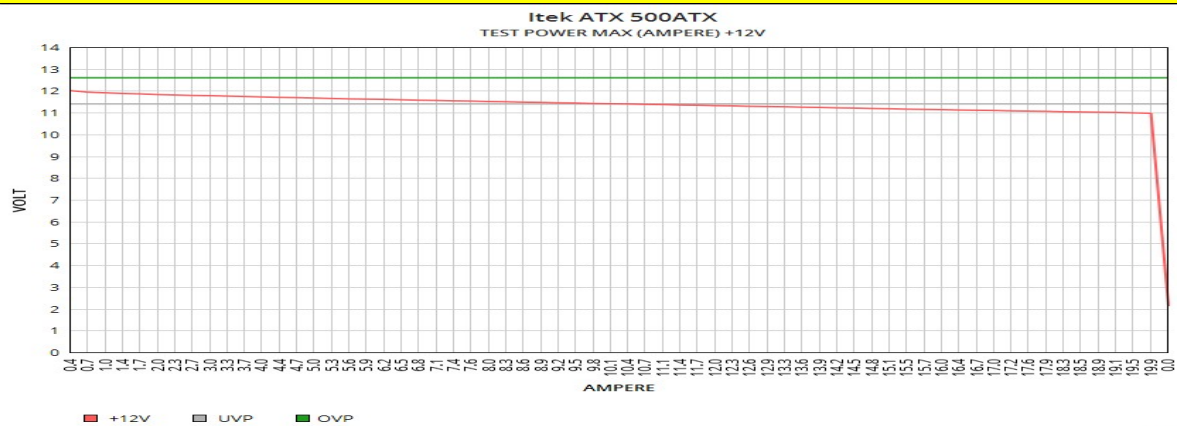
220V / 50Hz

Power Max Ampere - Value [+12V-20A]-[+5V-5A]-[+3.3V-5A]-[+5Vsb-1A]

Rating: 2.72/10

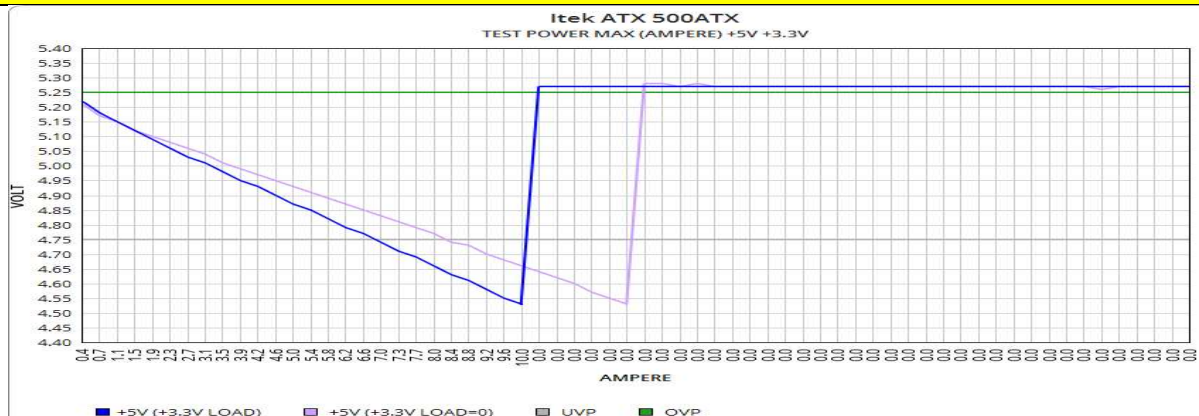


Power Max Ampere - Value [+12V-20A]-[+5V-0A]-[+3.3V-0A]-[+5Vsb-0A]



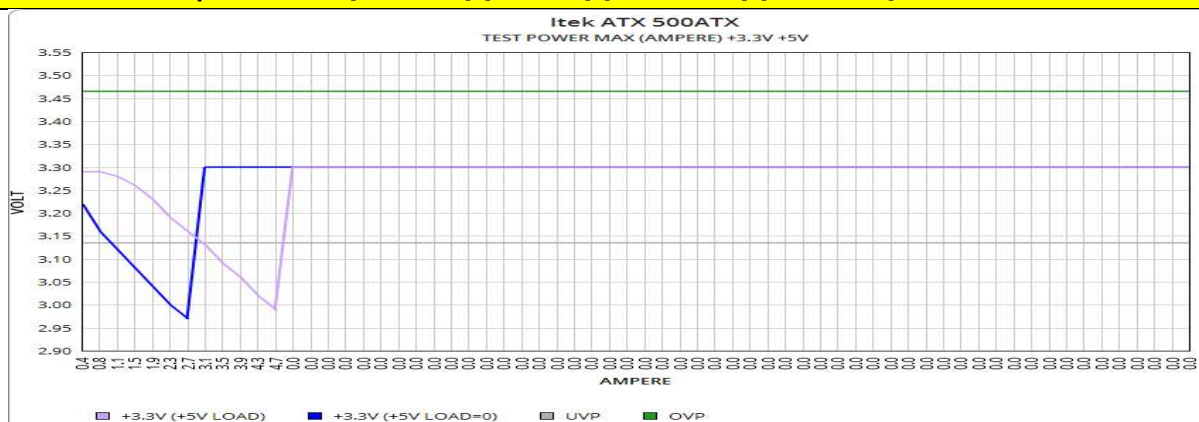
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Power Max Ampere - Value [+12V-0A]-[+5V-25A]-[+3.3V-0A]-[+5Vsb-0A]



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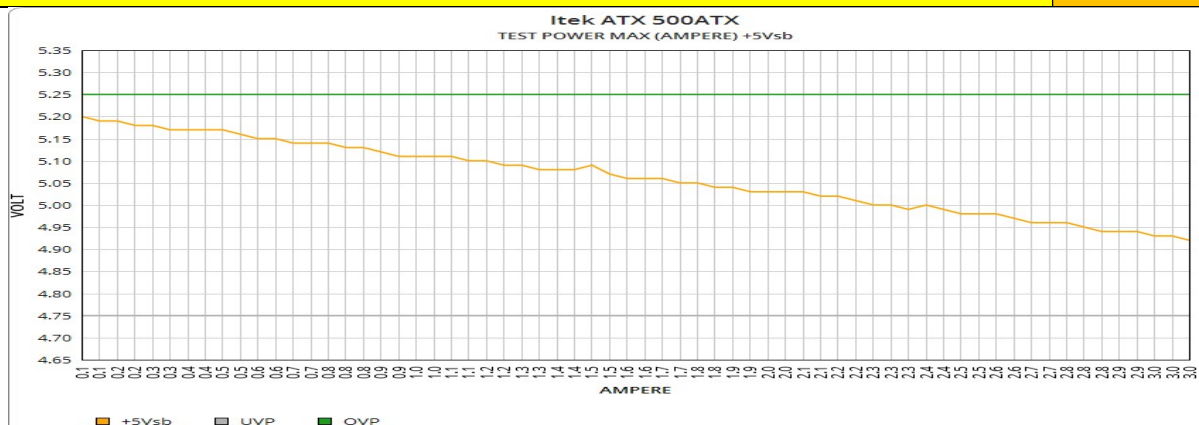
Power Max Ampere - Value [+12V-0A]-[+5V-0A]-[+3.3V-25A]-[+5Vsb-0A]



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

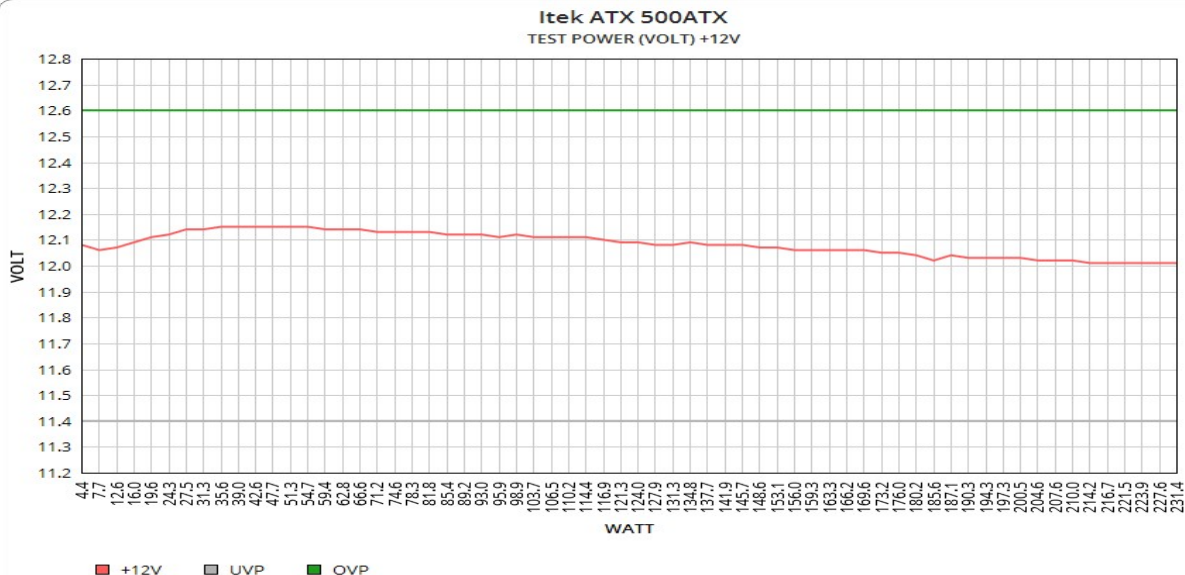
Rating: 4.94/10



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Power (Voltage 12V) - Value [+12V-14A]-[+5V-8A]-[+3.3V-8A]-[+5Vsb-1A]

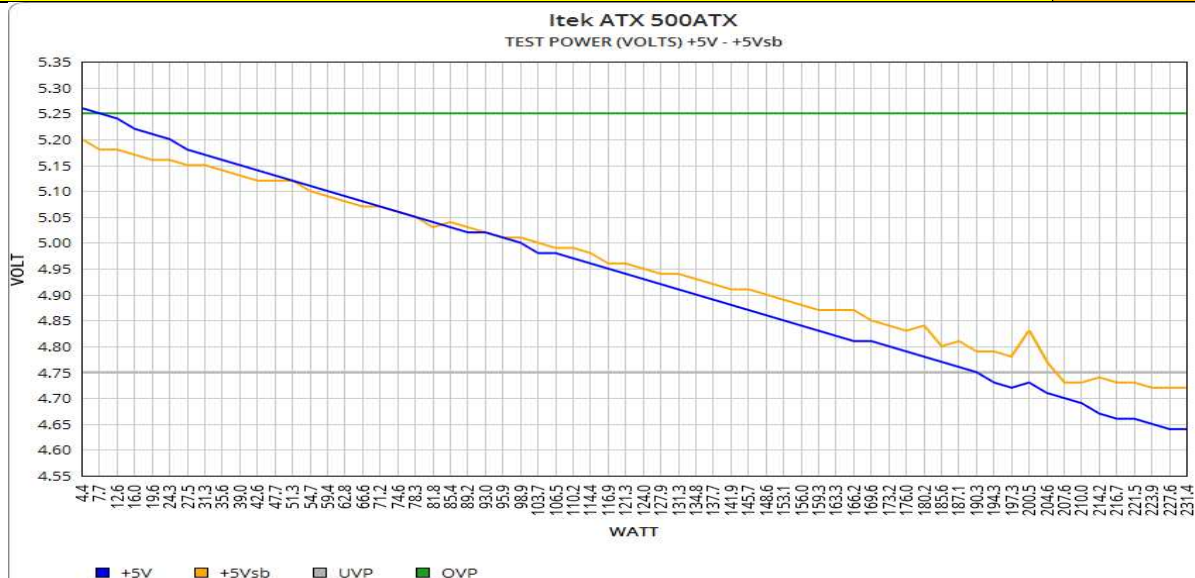
Rating: 9.58/10



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Power (Voltage 5V + 5Vsb) - Value [+12V-14A]-[+5V-8A]-[+3.3V-8A]-[+5Vsb-1A]

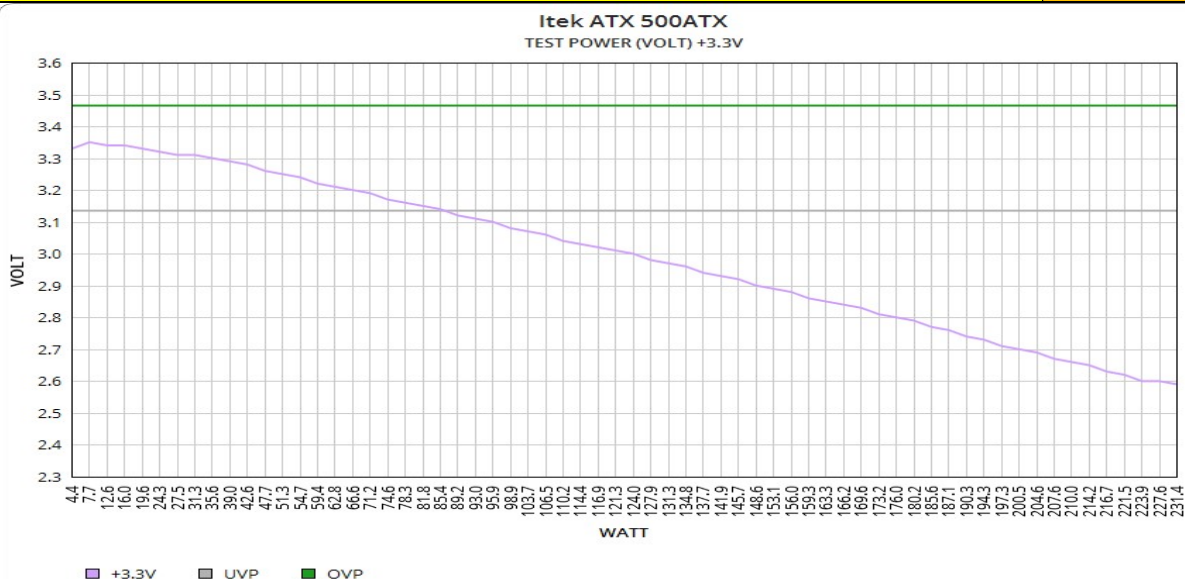
Rating: 6.15/10



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Power (Voltage 3.3V) - Value [+12V-14A]-[+5V-8A]-[+3.3V-8A]-[+5Vsb-1A]

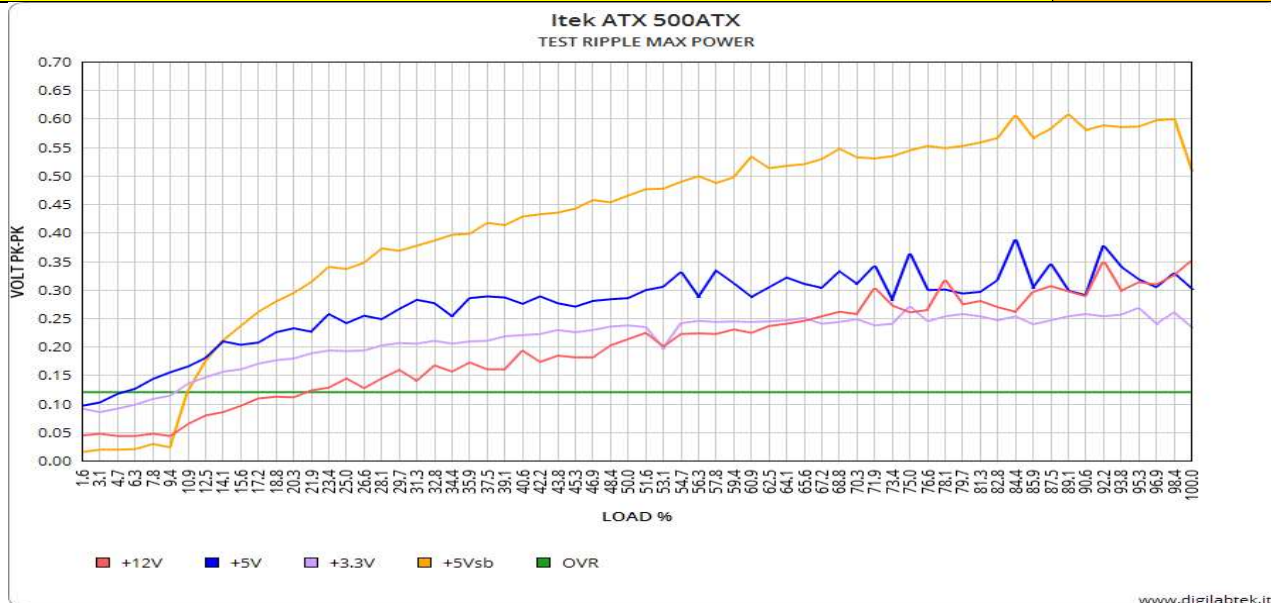
Rating: 0.38/10



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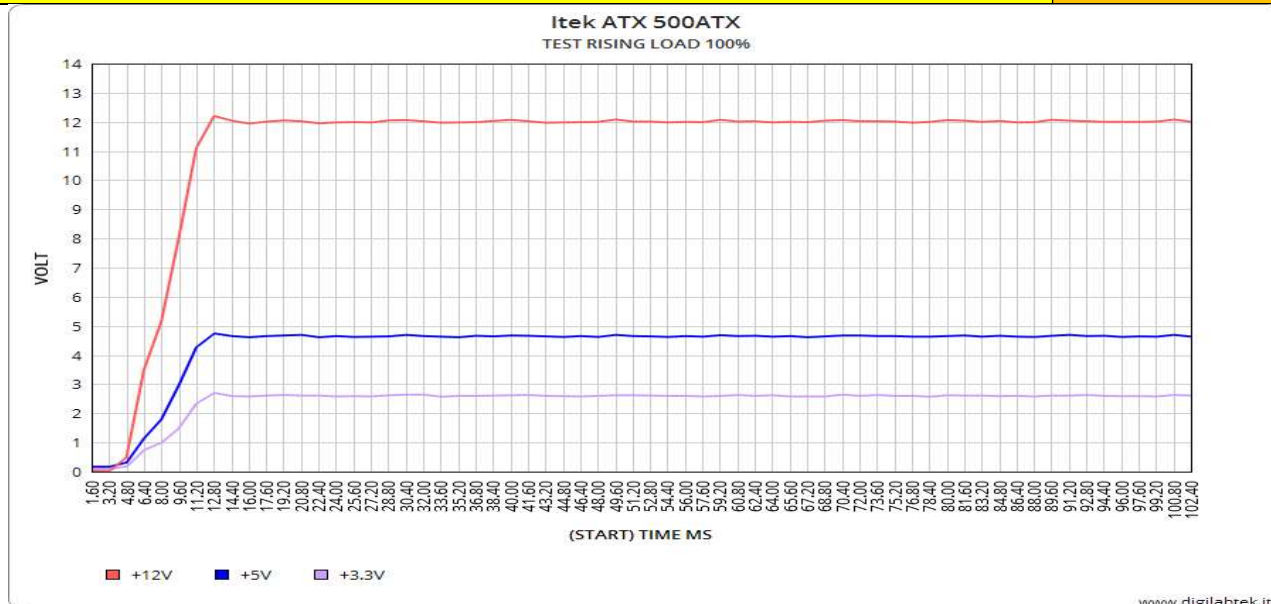
Ripple (Voltage) - Value [+12V-14A]-[+5V-8A]-[+3.3V-8A]-[+5Vsb-1A]

Rating: 5.88/10



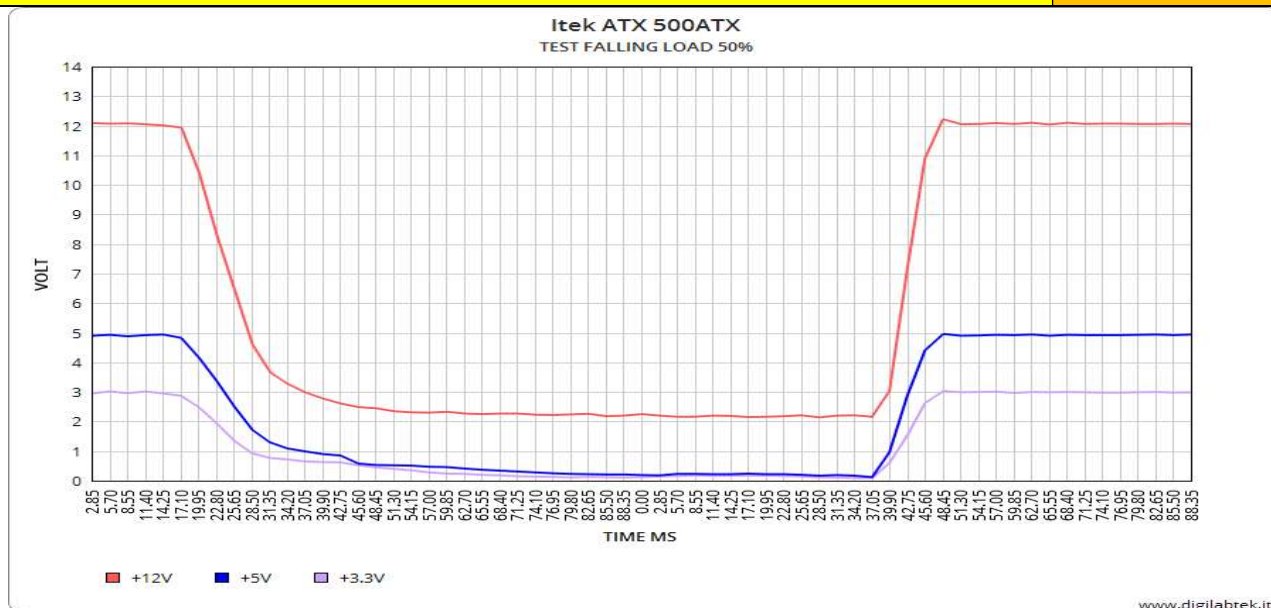
Rising (Voltage) - Value [+12V-14A]-[+5V-8A]-[+3.3V-8A]-[+5Vsb-1A]

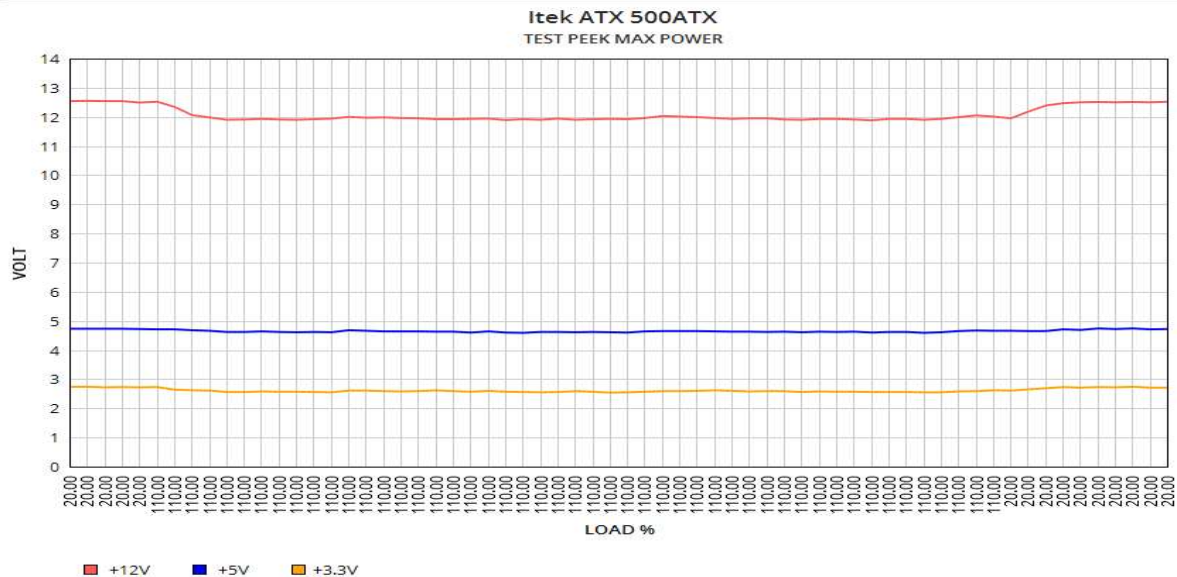
Rating: 9.83/10



Falling (Voltage) - Value [+12V-7A]-[+5V-4A]-[+3.3V-4A]-[+5Vsb-1A]

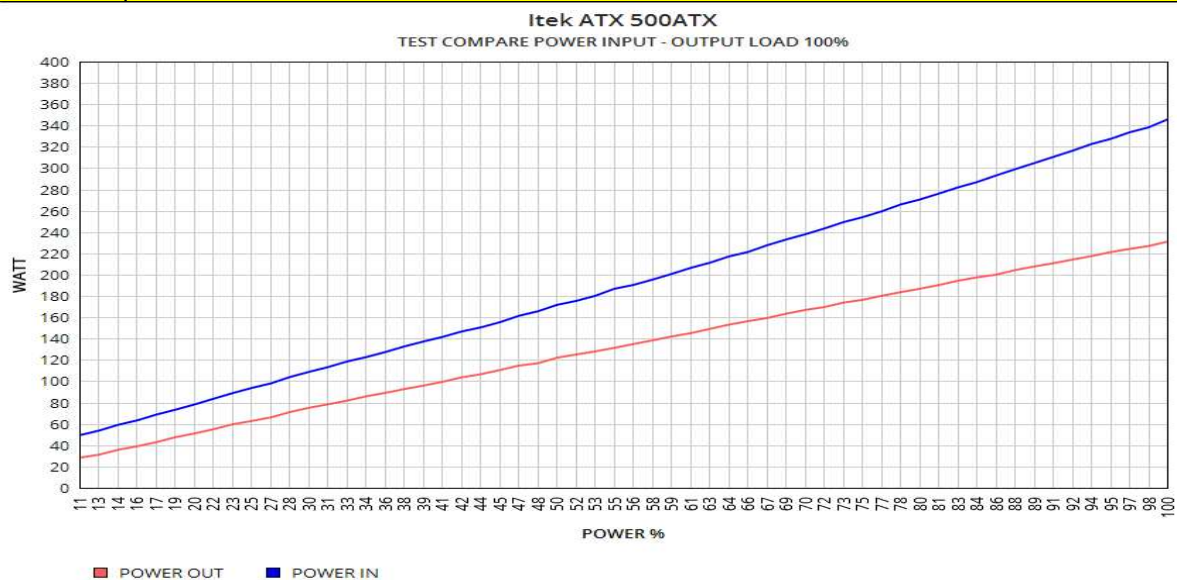
Rating: 5.14/10





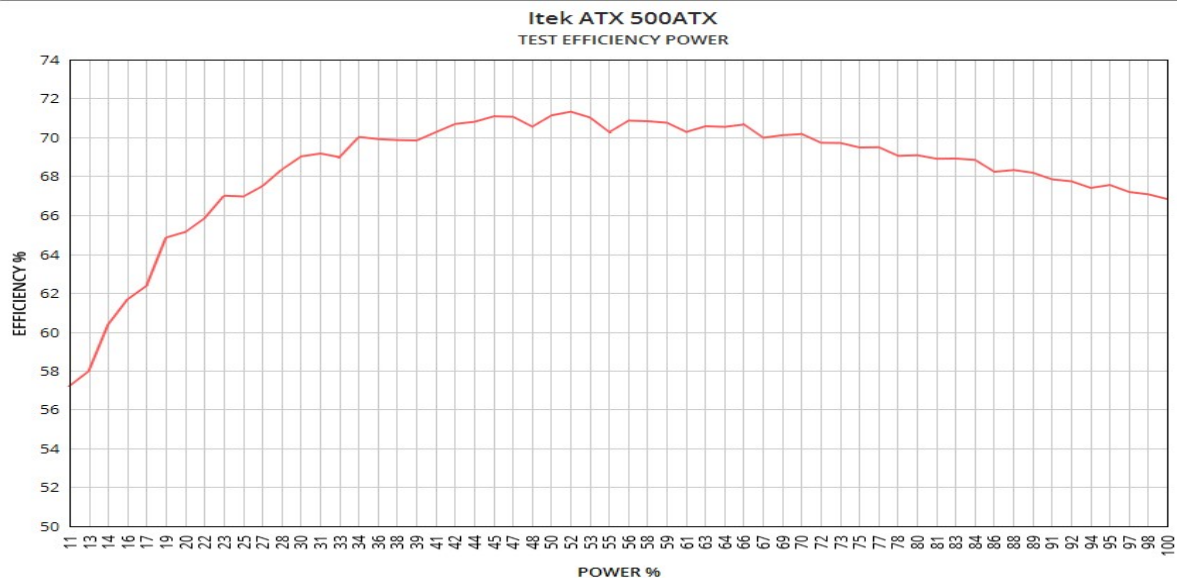
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Compare Input and Output Power



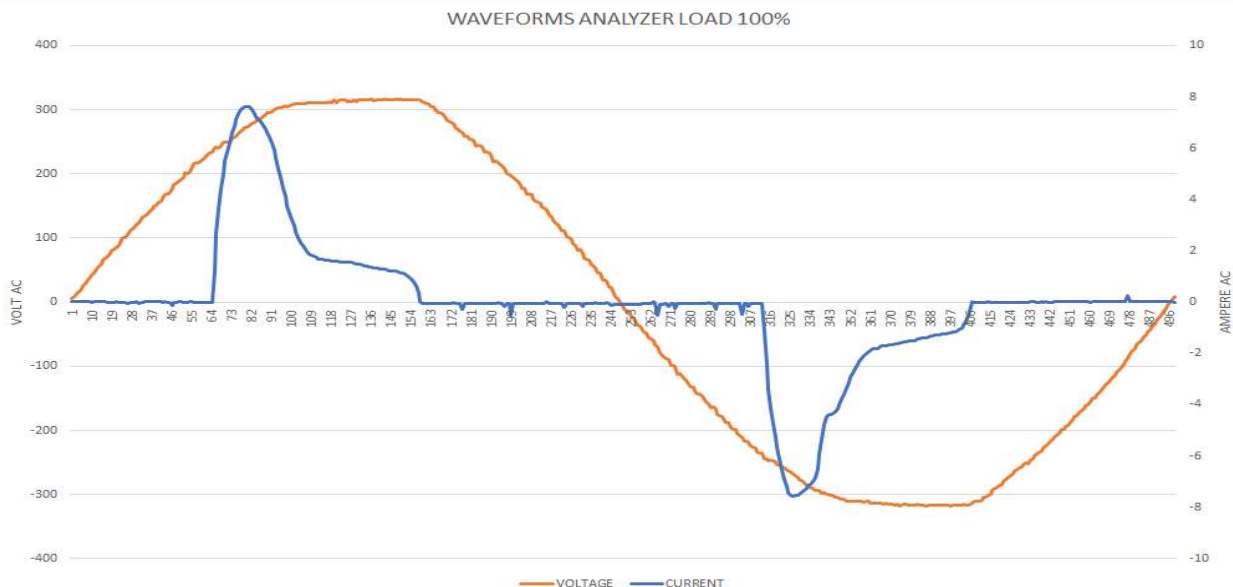
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Efficiency Power Supply



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Compare Current and Voltage Waveforms



Efficiency Report

Watt In	I-rms	FP	Load %	+12V/A	+5V/A	+3.3V/A	+5Vsb/A	Watt Out	Efficiency
86.10	0.619	0.60	20%	12.2/3.15	5.1/1.98	3.2/1.99	5.1/0.53	57.43	66.70%
174.08	1.299	0.58	50%	12.0/7.16	4.9/4.02	3.0/4.02	4.9/1.05	123.58	71.10%
344.79	2.418	0.62	100%	12.0/14.0	4.7/7.96	2.6/8.04	4.7/1.00	231.62	67.17%

Standby Power IEC62301-2011 (MAX 0.5W)

FAIL

3.70W

Conclusions

Positive notes:

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-
-

Negative notes:

-
-
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