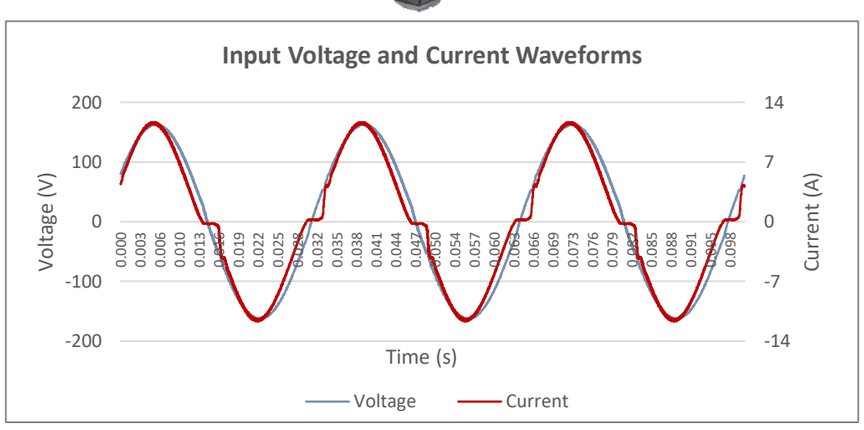
80 PLUS Verification and Testing Report

TYPICAL EFFICIENCY (50% Load):	**94.38%**
AVERAGE EFFICIENCY :	**88.26%**
AVERAGE STANDBY EFFICIENCY :	**82.40%**
80 PLUS COMPLIANT:	**Titanium**

ID Number	8124
Manufacturer	ASUS
Model Number	ROG-THOR-1600T3-GAMING-EVO
Sample 1 S/N:	N/A
Sample 2 S/N:	2Q010241111
Type	ATX12V, EPS12V
Test Date	2/18/26

Rated	**Value**	**Units**
Input Voltage	115-240	**Volts**
Input Current	15	**Amps**
Input Frequency	47-63	**Hz**
Rated Output Power	1600	**Watts**

Note: All measurements were taken with input voltage at 115 V nominal at 60 Hz.



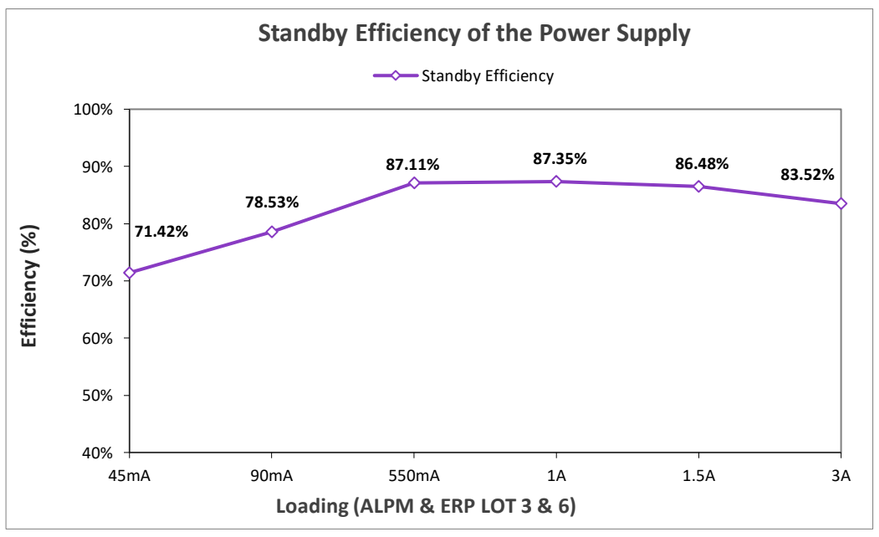
Input AC Current Waveform (ITHD = 14.9%, 50% Load)

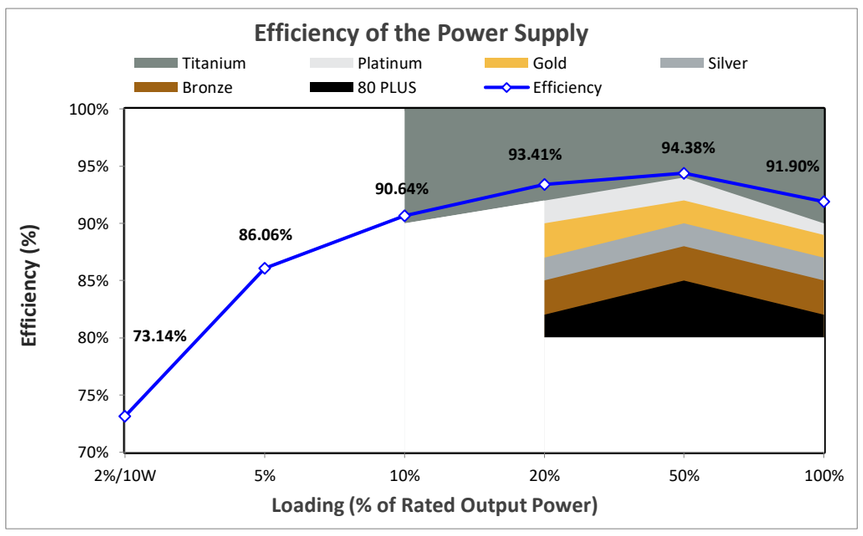
$I_{RMS\ (A)}$	PF	$I_{THD\ (\%)}$	Load	Input Watts	DC Terminal Voltage (V)/ DC Load Current (A)					Output Watts	Efficiency
					12V (cumulative of 12V1, 12V2, etc.)	-12V	3.3V	5V	5VSB		
0.161	0.5268	20.15	0%	**9.75**	**No-Load**						
0.425	**0.9014**	34.72	2%/10W	**44.10**	12.092/2.448	11.970/0.006	3.312/0.307	5.040/0.256	5.106/0.055	**32.26**	**73.14%**
0.857	**0.9507**	29.85	5%	**93.65**	12.088/6.118	11.971/0.014	3.310/0.768	5.037/0.640	5.103/0.138	**80.59**	**86.06%**
1.634	**0.9458**	31.28	10%	**177.77**	12.084/12.238	11.971/0.028	3.307/1.534	5.034/1.279	5.097/0.276	**161.13**	**90.64%**
3.102	**0.9654**	24.45	20%	**344.67**	12.076/24.473	11.976/0.055	3.301/3.071	5.026/2.559	5.085/0.551	**321.97**	**93.41%**
7.489	**0.9869**	14.90	50%	**850.49**	12.046/61.178	11.992/0.138	3.283/7.682	5.004/6.401	5.049/1.377	**802.73**	**94.38%**
15.213	**0.9935**	10.53	100%	**1738.16**	11.991/122.347	12.014/0.276	3.250/15.362	4.965/12.803	4.992/2.753	**1597.36**	**91.90%**

Note: Efficiency data was obtained from Sample 1 (Serial Number: N/A)

$I_{RMS\ (A)}$	PF	$I_{THD\ (\%)}$	Load	Input Watts	DC Terminal Voltage (V)/ DC Load Current (A)	Output Watts	Standby Efficiency
					5VSB		
0.103	0.0059	2.25	0mA	**0.07**	**Vampire Load**		
0.103	**0.0271**	8.10	45mA	**0.32**	5.107/0.045	**0.23**	**71.42%**
0.104	**0.0490**	13.63	90mA	**0.59**	5.106/0.090	**0.46**	**78.53%**
0.122	**0.2293**	49.31	550mA	**3.22**	5.094/0.550	**2.80**	**87.11%**
0.149	**0.3393**	65.11	1A	**5.82**	5.083/1.000	**5.08**	**87.35%**
0.186	**0.4120**	72.98	1.5A	**8.80**	5.070/1.500	**7.61**	**86.48%**
0.304	**0.5163**	79.07	3A	**18.08**	5.033/3.001	**15.10**	**83.52%**

Note: Standby efficiency data was obtained from Sample 2 (Serial Number: 2Q010241111)





These tests were conducted by a third party independent testing firm on behalf of the 80 PLUS Program. 80 PLUS is a certification program to promote highly-efficient power supplies (greater than 80% efficiency in the active mode) in technology applications.
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