80 PLUS Verification and Testing Report

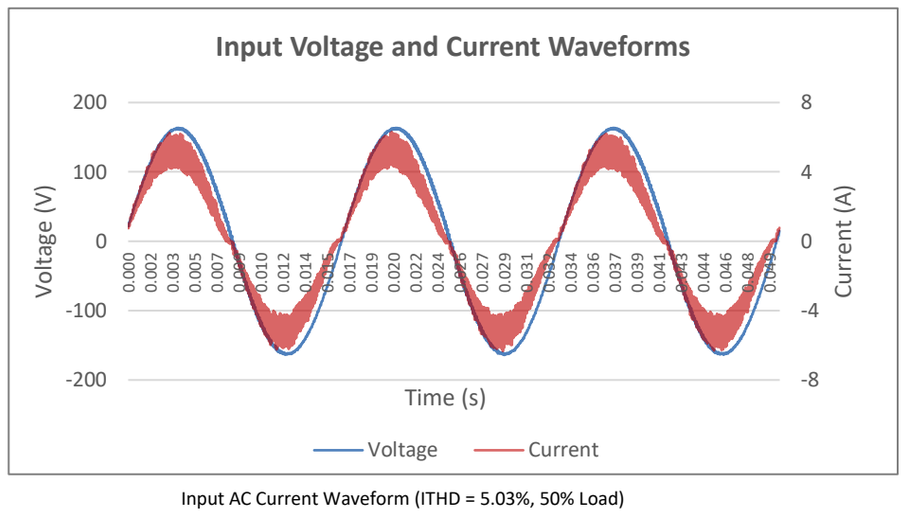
TYPICAL EFFICIENCY (50% Load):	**91.68%**
AVERAGE EFFICIENCY :	**86.57%**
80 PLUS COMPLIANT:	**Gold**



ID Number	7153.1
Manufacturer	ALPHAGEAR
Model Number	ASCEND 750
Serial Number	N/A
Year	2023
Type	ATX12V, EPS12V
Test Date	9/14/23

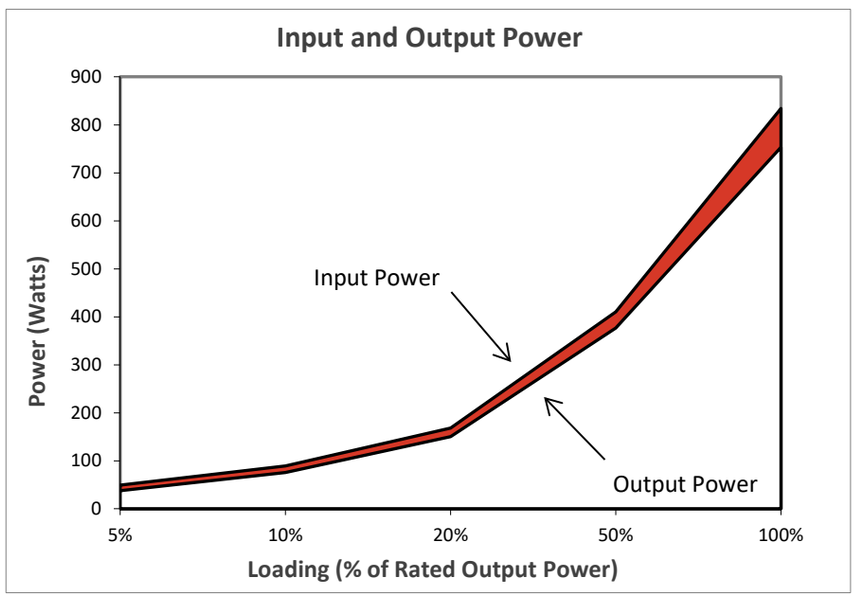
Rated Specifications	Value	Units
Input Voltage	100-240	**Volts**
Input Current	10	**Amps**
Input Frequency	50-60	**Hz**
Rated Output Power	750	**Watts**

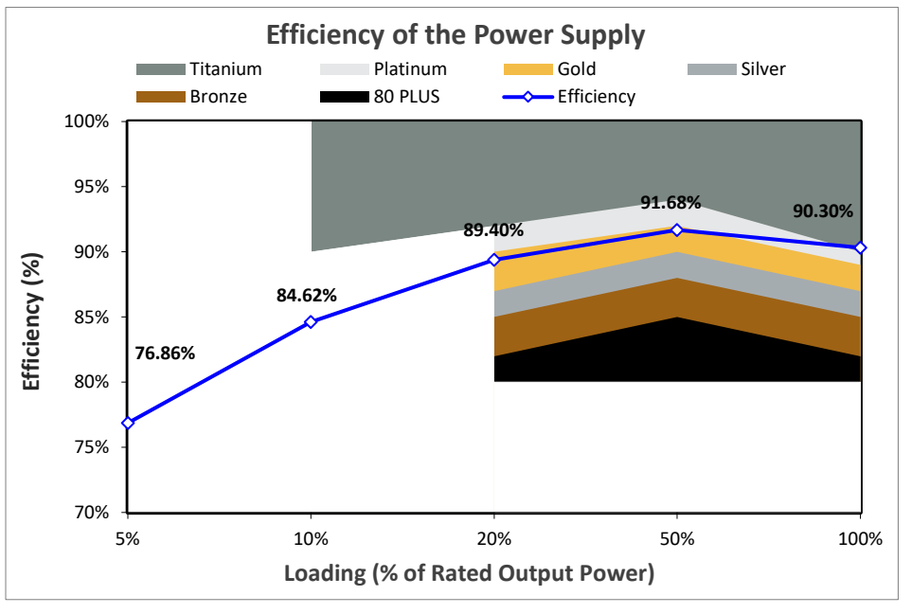
Note: All measurements were taken with input voltage at 115 V nominal at 60 Hz.



Input AC Current Waveform (ITHD = 5.03%, 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	5Vstb		
0.193	0.4416	28.22	0%	9.82	No-Load						
0.551	**0.7732**	19.22	5%	48.95	12.03/2.7	12.49/0.017	3.31/0.52	5/0.52	5.1/0.108	37.62	**76.86%**
0.877	**0.8818**	6.90	10%	88.93	12.03/5.41	12.45/0.035	3.31/1.05	5/1.04	5.1/0.216	75.25	**84.62%**
1.547	**0.9462**	6.32	20%	168.34	12.04/10.81	12.4/0.069	3.3/2.09	5/2.09	5.09/0.433	150.49	**89.40%**
3.627	**0.9836**	5.03	50%	410.45	12.05/27.02	12.3/0.173	3.29/5.22	4.97/5.22	5.06/1.082	376.30	**91.68%**
7.324	**0.9901**	5.02	100%	833.91	12.07/54.04	12.14/0.346	3.26/10.43	4.94/10.43	5.02/2.164	753.04	**90.30%**





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. *http://www.80plus.org/*