80 PLUS Verification and Testing Report

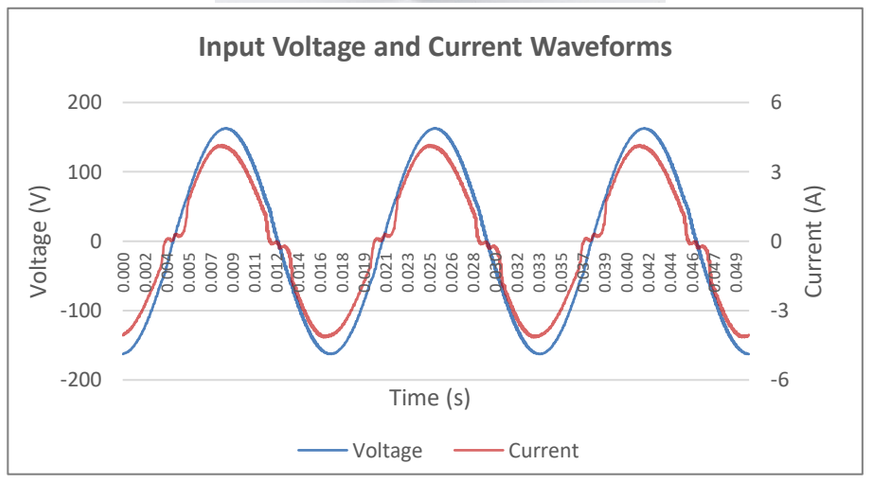
TYPICAL EFFICIENCY (50% Load):	86.80%
AVERAGE EFFICIENCY :	81.44%
80 PLUS COMPLIANT:	Bronze



ID Number	7042
Manufacturer	M.RED
Model Number	Dust DU-550B
Serial Number	N/A
Year	2023
Type	ATX12V
Test Date	5/9/23

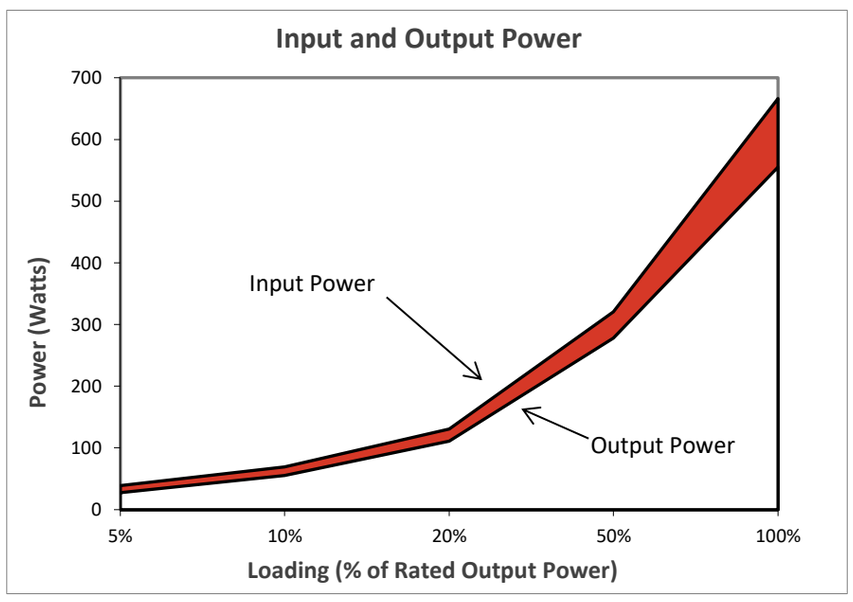
Rated Specifications	Value	Units
Input Voltage	100-240	Volts
Input Current	15-5	Amps
Input Frequency	50-60	Hz
Rated Output Power	550	Watts

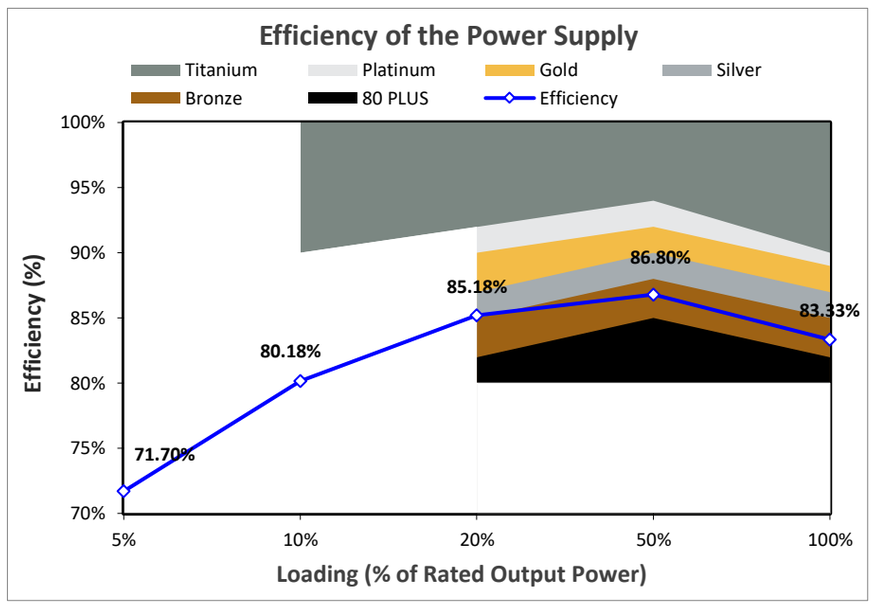
Note: All measurements were taken with input voltage at 115 V nominal at 60 Hz.



Input AC Current Waveform (ITHD = 11.61%, 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		
0.140	0.3802	60.14	0%	6.13	No-Load						
0.378	0.8914	37.62	5%	38.74	12.02/1.82	11.8/0.02	3.4/0.58	5.23/0.58	5.12/0.12	27.78	71.70%
0.625	0.9659	20.22	10%	69.46	12.03/3.65	11.8/0.06	3.39/1.15	5.21/1.15	5.12/0.24	55.69	80.18%
1.182	0.9617	25.38	20%	130.72	12.04/7.3	11.81/0.1	3.39/2.31	5.2/2.31	5.11/0.48	111.35	85.18%
2.814	0.9911	11.61	50%	320.67	12.04/18.3	11.86/0.24	3.38/5.76	5.18/5.72	5.09/1.2	278.34	86.80%
5.820	0.9952	8.41	100%	666.23	12.04/36.54	12/0.48	3.37/11.49	5.13/11.42	5.05/2.39	555.16	83.33%





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/*