80 PLUS Verification and Testing Report

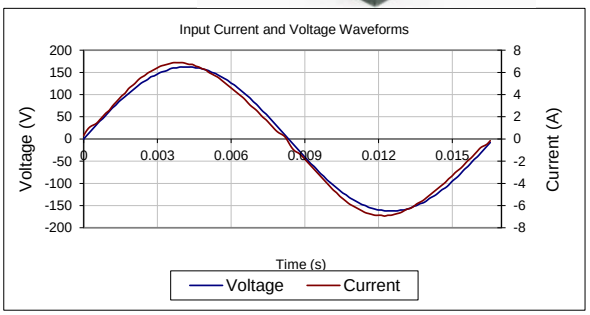
TYPICAL EFFICIENCY (50% Load):	**90.67%**
AVERAGE EFFICIENCY :	**89.15%**
80 PLUS COMPLIANT:	**YES**



ID #	4460.4
Manufacturer	BIOMAG S.L.
Model Number	MPB1000
Serial Number	N/A
Year	2015
Type	EPS12V
Test Date	10/8/15

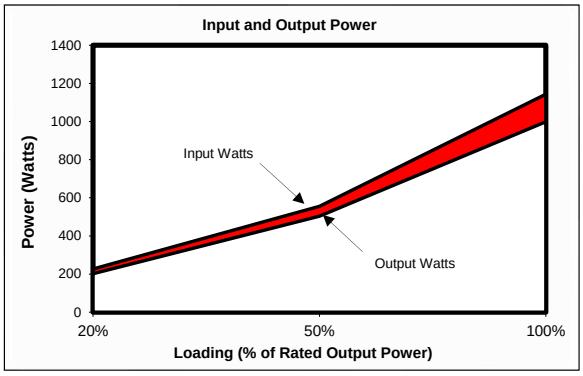
Rated Specifications	Value	Units
Input Voltage	100-240	Volts
Input Current	15	Amps
Input Frequency	47-63	Hz
Rated Output Power	**1000**	**Watts**

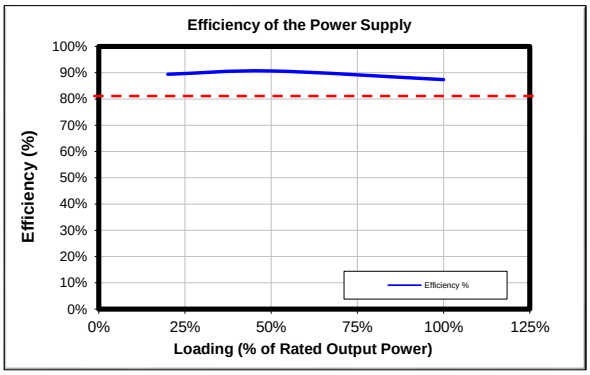
Note: All measurements were taken with input voltage at 115 V nominal at 60 Hz.



Input AC Current Waveform (ITHD = 4.09%, 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		
1.06	0.97	3.36%	10%	117.88	12.08/7.25	12.13/0.03	3.37/1.37	5.07/1.37	5.13/0.26	100.86	**85.56%**
1.99	0.99	3.57%	20%	226.34	12.07/14.59	12.12/0.05	3.36/2.74	5.07/2.72	5.12/0.52	202.38	**89.41%**
4.84	1.00	4.09%	50%	555.10	12.05/36.35	12.05/0.13	3.34/6.84	5.05/6.79	5.1/1.31	503.29	**90.67%**
9.98	1.00	6.53%	100%	1143.10	12.02/72.31	12.07/0.26	3.31/13.64	5.01/13.55	5.07/2.62	998.75	**87.37%**





PLUG LOAD solutions

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/

80 PLUS