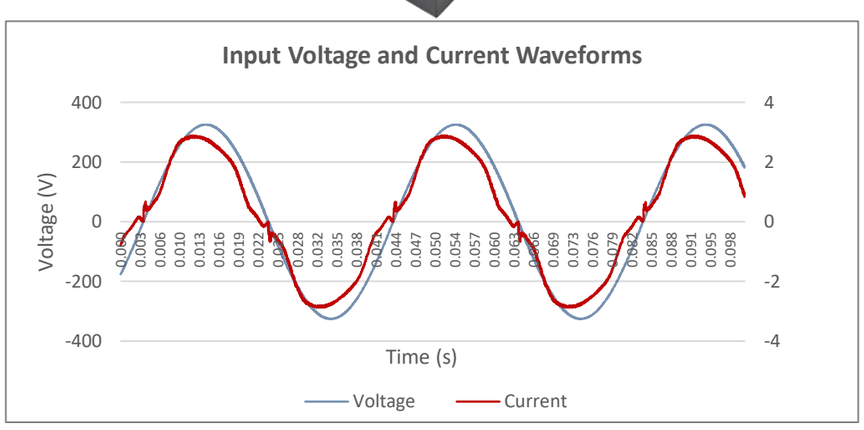
80 PLUS Verification and Testing Report

TYPICAL EFFICIENCY (50% Load):	**90.92%**
AVERAGE EFFICIENCY :	**84.31%**
AVERAGE STANDBY EFFICIENCY :	**72.09%**
80 PLUS COMPLIANT:	**Silver**



ID Number	EU-1231
Manufacturer	Hanmi Micronics Inc.
Model Number	MCL2800SVE12H
Sample 1 S/N:	N/A
Sample 2 S/N:	N/A
Type	ATX12V, ATX 3.1, EPS12V
Test Date	6/16/25



Input AC Current Waveform (ITHD = 11.59%, 50% Load)

Rated	Value	Units
Input Voltage	200-240	**Volts**
Input Current	6	**Amps**
Input Frequency	50-60	**Hz**
Rated Output Power	800	**Watts**

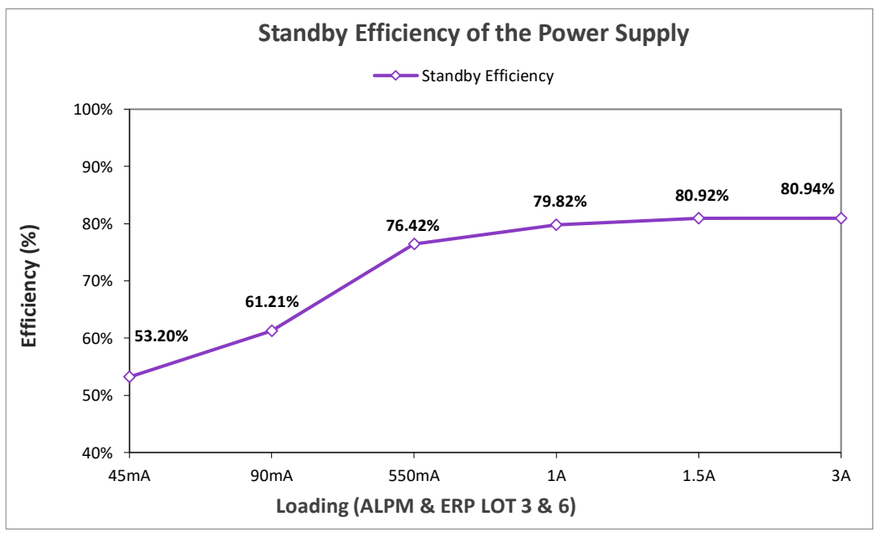
Note: All measurements were taken with input voltage at 230 V nominal at 50 Hz.

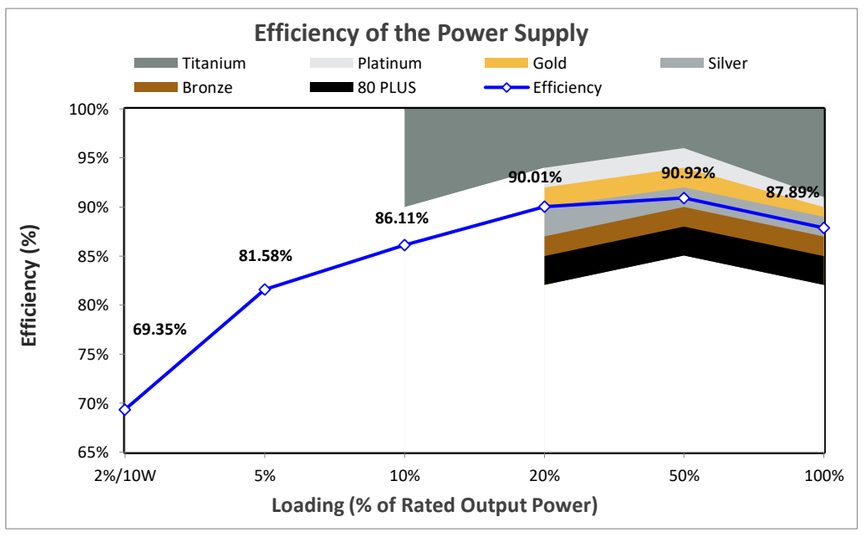
$I_{RMS\ (A)}$	PF	$I_{THD\ (\%)}$	Load	Input Watts	DC Terminal Voltage (V)/ DC Load Current (A)					Output Watts	Efficiency
					12V (cumulative of 12V1, 12V2, etc.)	-12V	3.3V	5V	5VSB		
0.168	0.1724	38.24	0%	**6.67**	**No-Load**						
0.279	**0.3623**	65.23	2%/10W	**23.22**	12.077/1.163	11.745/0.005	3.318/0.210	5.029/0.210	5.118/0.052	**16.10**	**69.35%**
0.348	**0.6166**	57.58	5%	**49.35**	12.075/2.905	11.792/0.013	3.318/0.525	5.029/0.525	5.114/0.131	**40.26**	**81.58%**
0.485	**0.8376**	37.48	10%	**93.49**	12.074/5.807	12.212/0.026	3.320/1.048	5.031/1.049	5.107/0.262	**80.51**	**86.11%**
0.807	**0.9637**	8.94	20%	**178.85**	12.072/11.612	12.223/0.052	3.319/2.098	5.030/2.099	5.094/0.523	**160.98**	**90.01%**
1.957	**0.9825**	11.59	50%	**442.36**	12.063/29.031	12.179/0.131	3.320/5.249	5.032/5.249	5.059/1.308	**402.19**	**90.92%**
4.006	**0.9917**	7.97	100%	**913.77**	12.045/58.053	12.178/0.262	3.321/10.498	5.033/10.499	4.995/2.614	**803.09**	**87.89%**

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		
0.083	0.0076	2.28	0mA	**0.15**	**Vampire Load**		
0.084	**0.0225**	8.87	45mA	**0.43**	5.108/0.045	**0.23**	**53.20%**
0.084	**0.0390**	13.99	90mA	**0.75**	5.107/0.090	**0.46**	**61.21%**
0.097	**0.1645**	49.27	550mA	**3.67**	5.093/0.550	**2.80**	**76.42%**
0.117	**0.2362**	66.88	1A	**6.37**	5.080/1.000	**5.08**	**79.82%**
0.145	**0.2821**	77.45	1.5A	**9.39**	5.065/1.500	**7.60**	**80.92%**
0.232	**0.3489**	86.97	3A	**18.62**	5.018/3.003	**15.07**	**80.94%**

Note: Standby efficiency data was obtained from Sample 2 (Serial Number: N/A)





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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