On-semi with Navitas Gan Mos 65W Demo Board test report

Efficiency

Model : 65W

1. Equipment :

(1) AC Source : Chroma 6530

(2) DC Load : Chroma 63640-80-80

(3) Power Analyzer : Chroma66205

(4) Digital Multimeter : KEITHLEY DMM6500

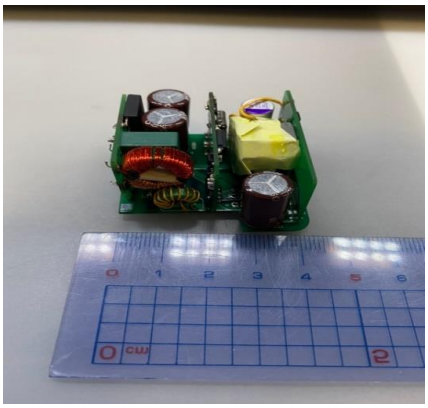
2. Test Condition :

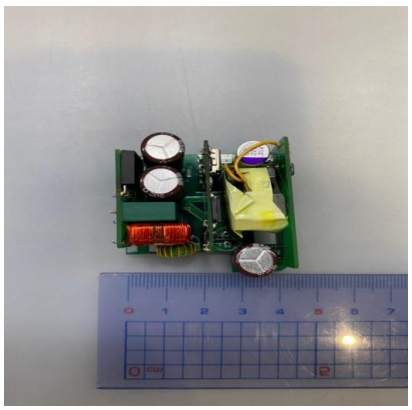
(1) AC Input Voltage : 115VAC / 230VAC

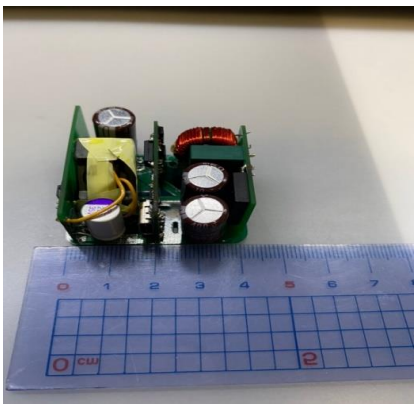
(2) Input Frequency : 60Hz / 50Hz

(3) Load Condition : See Below

(4) Temperature : Room Ambient Temperature



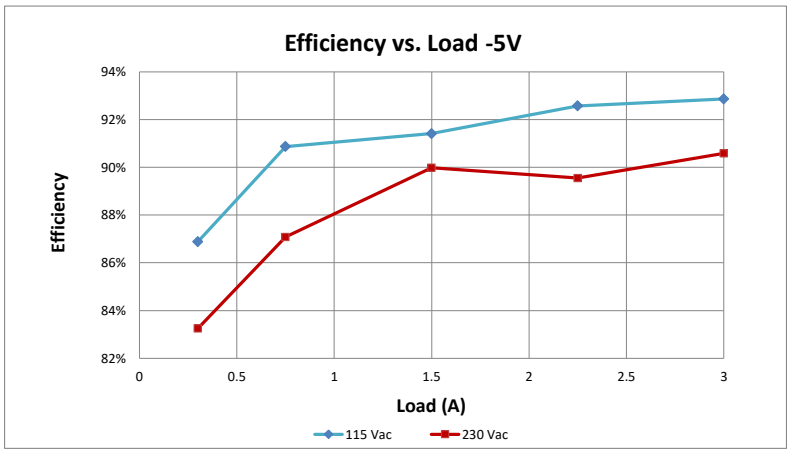




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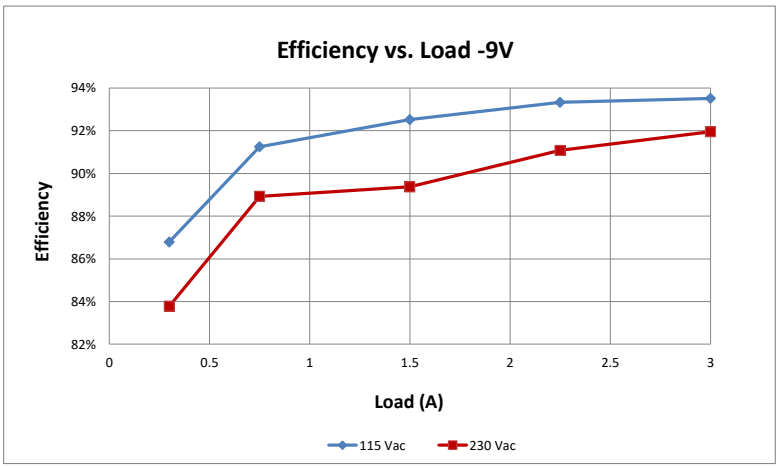
Efficiency

5V Output			
Input (Vac)	Load (%)	Efficiency (%)	Average (%)
115	100	92.86	91.9
	75	92.57	
	50	91.41	
	25	90.87	
	10	86.88	
230	100	90.58	89.3
	75	89.55	
	50	89.98	
	25	87.08	
	10	83.25	



115 Vac	Load (A)	0.3	0.75	1.5	2.25	3
	Efficiency	86.88	90.87	91.41	92.57	92.86
230 Vac	Load (A)	0.3	0.75	1.5	2.25	3
	Efficiency	83.25	87.08	89.98	89.55	90.58

9V Output			
Input (Vac)	Load (%)	Efficiency (%)	Average (%)
115	100	93.51	92.7
	75	93.33	
	50	92.52	
	25	91.25	
	10	86.79	
230	100	91.95	90.3
	75	91.08	
	50	89.37	
	25	88.93	
	10	83.78	

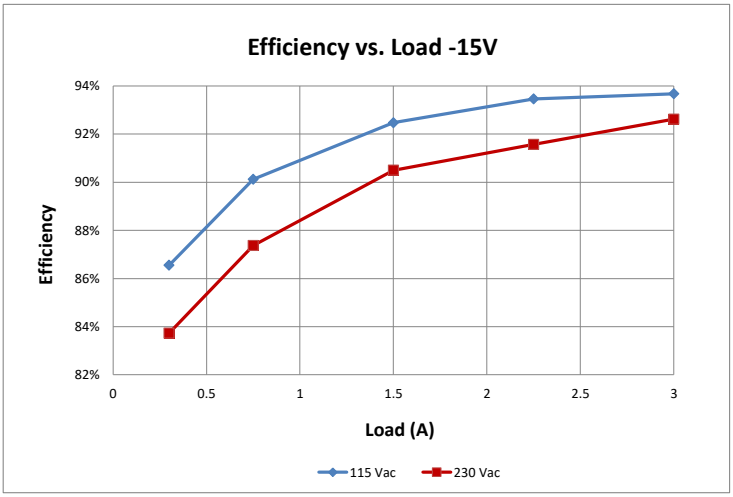


115 Vac	Load (A)	0.3	0.75	1.5	2.25	3
	Efficiency	86.79	91.25	92.52	93.33	93.51
230 Vac	Load (A)	0.3	0.75	1.5	2.25	3
	Efficiency	83.78	88.93	89.37	91.08	91.95

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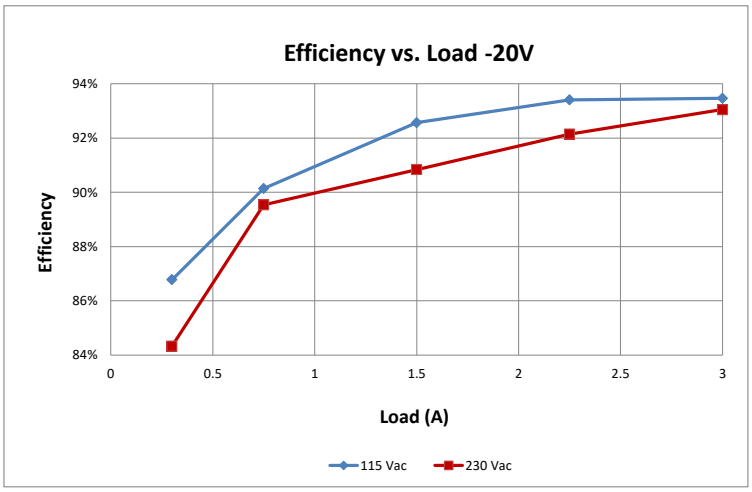
Efficiency

15V Output			
Input (Vac)	Load (%)	Efficiency (%)	Average (%)
115	100	93.67	92.4
	75	93.46	
	50	92.47	
	25	90.12	
	10	86.55	
230	100	92.62	90.5
	75	91.57	
	50	90.50	
	25	87.37	
	10	83.73	



115 Vac	Load (A)	0.3	0.75	1.5	2.25	3
	Efficiency	86.55	90.12	92.47	93.46	93.67
230 Vac	Load (A)	0.3	0.75	1.5	2.25	3
	Efficiency	83.73	87.37	90.5	91.57	92.62

20V Output			
Input (Vac)	Load (%)	Efficiency (%)	Average (%)
115	100	93.47	92.4
	75	93.41	
	50	92.57	
	25	90.14	
	10	86.78	
230	100	93.05	91.4
	75	92.15	
	50	90.84	
	25	89.54	
	10	84.33	



115 Vac	Load (A)	0.3	0.75	1.5	2.25	3
	Efficiency	86.78	90.14	92.57	93.41	93.47
230 Vac	Load (A)	0.3	0.75	1.5	2.25	3
	Efficiency	84.33	89.54	90.84	92.15	93.05

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On-semi with Navitas Gan Mos 65W Demo Board test report

Efficiency

	5V							
Loading Condition	DCout		Pout	AC Input			Pd	Efficiency
	V	I		Vin	Iin	Pin		
115Vac 100% maximum load	5.018V	3A	15.054W	114.89V	0.33A	16.212W	1.158W	92.86%
115Vac 75% maximum load	5.014V	2.25A	11.2815W	114.9V	0.264A	12.187W	0.9055W	92.57%
115Vac 50% maximum load	5.01V	1.5A	7.515W	114.91V	0.193A	8.221W	0.706W	91.41%
115Vac 25% maximum load	5.01V	0.75A	3.7575W	114.92V	0.11A	4.135W	0.3775W	90.87%
115Vac 10% maximum load	5.013V	0.3A	1.5039W	114.92V	0.054A	1.731W	0.2271W	86.88%

	9V							
Loading Condition	DCout		Pout	AC Input			Pd	Efficiency
	V	I		Vin	Iin	Pin		
115Vac 100% maximum load	9.027V	3A	27.081W	114.86V	0.515A	28.96W	1.879W	93.51%
115Vac 75% maximum load	9.022V	2.25A	20.2995W	114.88V	0.42A	21.75W	1.4505W	93.33%
115Vac 50% maximum load	9.02V	1.5A	13.53W	114.9V	0.307A	14.624W	1.094W	92.52%
115Vac 25% maximum load	9.024V	0.75A	6.768W	114.91V	0.178A	7.417W	0.649W	91.25%
115Vac 10% maximum load	9.018V	0.3A	2.7054W	114.91V	0.082A	3.117W	0.4116W	86.79%

	15V							
Loading Condition	DCout		Pout	AC Input			Pd	Efficiency
	V	I		Vin	Iin	Pin		
115Vac 100% maximum load	15.047V	3A	45.141W	114.82V	0.793A	48.19W	3.049W	93.67%
115Vac 75% maximum load	15.033V	2.25A	33.82425W	114.85V	0.6319A	36.19W	2.36575W	93.46%
115Vac 50% maximum load	15.03V	1.5A	22.545W	114.88V	0.46A	24.38W	1.835W	92.47%
115Vac 25% maximum load	15.04V	0.75A	11.28W	114.9V	0.271A	12.516W	1.236W	90.12%
115Vac 10% maximum load	15.04V	0.3A	4.512W	114.92V	0.133A	5.213W	0.701W	86.55%

	20V							
Loading Condition	DCout		Pout	AC Input			Pd	Efficiency
	V	I		Vin	Iin	Pin		
115Vac 100% maximum load	20.05V	3A	60.15W	114.78V	1.0087A	64.35W	4.2W	93.47%
115Vac 75% maximum load	20.053V	2.25A	45.11925W	114.82V	0.797A	48.3W	3.18075W	93.41%
115Vac 50% maximum load	20.045V	1.5A	30.0675W	114.86V	0.58A	32.48W	2.4125W	92.57%
115Vac 25% maximum load	20.06V	0.75A	15.045W	114.89V	0.341A	16.69W	1.645W	90.14%
115Vac 10% maximum load	20.06V	0.3A	6.018W	114.91V	0.168A	6.935W	0.917W	86.78%

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Efficiency

	5V							
Loading Condition	DCout		Pout	AC Input			Pd	Efficiency
	V	I		Vin	Iin	Pin		
230Vac 100% maximum load	5.018V	3A	15.054W	229.86V	0.229A	16.62W	1.566W	90.58%
230Vac 75% maximum load	5.015V	2.25A	11.28375W	229.87V	0.183A	12.6W	1.31625W	89.55%
230Vac 50% maximum load	5.015V	1.5A	7.5225W	229.87V	0.129A	8.36W	0.8375W	89.98%
230Vac 25% maximum load	5.01V	0.75A	3.7575W	229.87V	0.069A	4.315W	0.5575W	87.08%
230Vac 10% maximum load	5.009V	0.3A	1.5027W	229.88V	0.033A	1.805W	0.3023W	83.25%

	9V							
Loading Condition	DCout		Pout	AC Input			Pd	Efficiency
	V	I		Vin	Iin	Pin		
230Vac 100% maximum load	9.023V	3A	27.069W	229.85V	0.361A	29.44W	2.371W	91.95%
230Vac 75% maximum load	9.023V	2.25A	20.30175W	229.86V	0.2917A	22.29W	1.98825W	91.08%
230Vac 50% maximum load	9.02V	1.5A	13.53W	229.87V	0.213A	15.14W	1.61W	89.37%
230Vac 25% maximum load	9.023V	0.75A	6.76725W	229.83V	0.119A	7.61W	0.84275W	88.93%
230Vac 10% maximum load	9.02V	0.3A	2.706W	229.87V	0.054A	3.23W	0.524W	83.78%

	15V							
Loading Condition	DCout		Pout	AC Input			Pd	Efficiency
	V	I		Vin	Iin	Pin		
230Vac 100% maximum load	15.032V	3A	45.096W	229.83V	0.533A	48.69W	3.594W	92.62%
230Vac 75% maximum load	15.03V	2.25A	33.8175W	229.84V	0.431A	36.93W	3.1125W	91.57%
230Vac 50% maximum load	15.035V	1.5A	22.5525W	229.86V	0.3183A	24.92W	2.3675W	90.50%
230Vac 25% maximum load	15.039V	0.75A	11.27925W	229.87V	0.188A	12.91W	1.63075W	87.37%
230Vac 10% maximum load	15.044V	0.3A	4.5132W	229.88V	0.089A	5.39W	0.8768W	83.73%

	20V							
Loading Condition	DCout		Pout	AC Input			Pd	Efficiency
	V	I		Vin	Iin	Pin		
230Vac 100% maximum load	20.05V	3A	60.15W	229.81V	0.664A	64.64W	4.49W	93.05%
230Vac 75% maximum load	20.04V	2.25A	45.09W	229.83V	0.5376A	48.93W	3.84W	92.15%
230Vac 50% maximum load	20.046V	1.5A	30.069W	229.85V	0.3989A	33.1W	3.031W	90.84%
230Vac 25% maximum load	20.07V	0.75A	15.0525W	229.87V	0.232A	16.81W	1.7575W	89.54%
230Vac 10% maximum load	20.07V	0.3A	6.021W	229.88V	0.114A	7.14W	1.119W	84.33%