

The GAP Generator with no moving parts

The test on this page, (Page-1), was done with Bank-1 being a 36 volt battery bank. Bank-1 supplied input power to The GAP Generator plus supplied power to a DC motor which had a DC generator attached which was supplying power to four lights. This test was simulating the GAP Generator operating a vehicle. The GAP Generator was also charging Bank-2 which consist of two 24 volt battery banks in parallel. The test results are good but, I thought it could do better. *See the test results on this page.*

Since Bank-2 was two 24 volt banks in parallel, I decided to do another test with Bank-1 being a 48 volt battery bank and supplying input power to The GAP Generator with the 36 volt section. The relays I'm using are only rated for 28 volts maximum. The 36 volt section also supplied power to the DC motor. Compare the difference in performance of these two test. The test using a 48 volt battery bank for Bank-1 is on page 2.

The GAP Generator charging it's own batteries												Bank-1 SOC was 100 percent. Bank-2 SOC was 80 percent.				Test No. 1 is SOC B4 test starts.						28.3 Coil ohms	
Test ran on 2022-04-18 with 36 volt battery bank												Check input and output at end of each minute. This gives time for batteries to adjust.										2 Coils 56.6	
Test No.	Minutes AM	GAP AC Volts In	GAP AC Amps In	GAP AC Watts In	DC Volts Out	DC Amps Out	AC Volts Out	AC Amps Out	AC & DC Watts Out	DC volts to motor	Amps to motor	Watts to motor	CHG & to motor	CHG&MOTO OF OU	Volts from Generator	Amps from Generator	Watts from Generator	Total Watts Over Unity					
1	8.59	38.20	0.00	0.00	25.09	0.00			0.00	0.00	0.00												
2	9.00	35.79	9.22	329.98	29.15	8.90	1.28	5.78	266.83	36.40	4.00	145.60	412.43	82.45	8.80	2.70	23.76	106.21		Before Test			
3	9.01	36.12	7.75	279.93	30.56	6.30	1.52	3.55	197.92	35.50	3.70	131.35	329.27	49.34	9.80	2.50	24.50	73.84		Start of test			
4	9.02	35.99	7.40	266.33	30.63	6.00	1.93	3.30	190.15	36.00	3.60	129.60	319.75	53.42	9.00	2.40	21.60	75.02		Charging B			
5	9.03	36.04	7.02	253.00	30.65	5.80	1.84	3.17	183.60	35.50	3.60	127.80	311.40	58.40	8.70	2.40	20.88	79.28		AC INPUT			
6	9.04	35.85	6.74	241.63	30.67	5.30	1.84	3.04	168.14	35.90	3.50	125.65	293.79	52.17	8.70	2.40	20.88	73.05					
7	9.05	35.56	6.47	230.07	30.66	9.30	1.86	2.84	290.42	36.00	3.50	126.00	416.42	186.35	8.20	2.30	18.86	205.21					
8	9.06	35.58	6.32	224.87	30.65	5.00	1.84	2.78	158.37	36.60	3.40	124.44	282.81	57.94	7.90	2.30	18.17	76.11					
9	9.07	35.30	6.11	215.68	30.65	4.70	2.26	2.70	150.16	35.60	3.40	121.04	271.20	55.51	7.90	2.30	18.17	73.68					
10	9.08	35.11	5.91	207.50	30.62	4.80	2.00	2.64	152.26	35.80	3.40	121.72	273.98	66.48	7.60	2.30	17.48	83.96					
11	9.09	35.08	5.88	206.27	30.60	3.90	2.10	2.56	124.72	36.30	3.40	123.42	248.14	41.87	7.50	2.20	16.50	58.37					
12	9.10	35.07	5.68	199.20	30.58	4.00	2.28	2.44	127.88	35.60	3.40	121.04	248.92	49.73	7.20	2.20	15.84	65.57					
		Average Watts >>>>			241.31			1.89	3.16	182.77		127.06	309.83	68.51			19.69	88.21	Average Wa				
SOC	9.11	37.00			SOC	26.07	<i>Did the voltage in Bank-1 and Bank-2 trade places?</i>																
SOC	9.12	37.10			SOC	25.86	<i>Yes. This is what I was looking for.</i>							<i>This test had DC motor-generator attached to Bank-1 also.</i>									
SOC	9.13	37.10			SOC	25.79	<i>Look at column L. Then add column P to that.</i>																
SOC	9.14	37.20			SOC	25.75	<i>Charging it's own batteries plus more output.</i>																
SOC	9.15	37.30			SOC	25.73	<i>Watch videos. The SOC to the left is most important.</i>							<i>This test represents a GAP Generator in a VEHICLE.</i>									
SOC	9.16	37.30			SOC	25.71	<i>Need GOOD batteries.</i>																
SOC	9.30	37.40			SOC	25.59	<i>Using six 6 Volt batteries for input.</i>																
SOC	9.40	37.40			SOC	25.56	<i>Home is minus output by Generator from DC Motor</i>																
SOC		0.00			SOC	0.00	<i>Bank-1 is 36 VDC Bank- is two 24 volt banks in parallel.</i>																
							<i>Bank-1 supplies Input & Bank-2 is being charged.</i>																
							<i>The GAP Generator for VEHICLE.</i>							<i>The GAP Generator for HOME.</i>									
							<i>329.52 Average watts output.</i>							<i>309.83 Average watts output.</i>									
							<i>241.31 Average watts input.</i>							<i>241.31 Average watts input.</i>									
							<i>88.21 Average Watts over unity</i>							<i>68.51 Average Watts over unity</i>									
							<i>136.55 Percent of unity.</i>							<i>128.39 Percent of unity.</i>									

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The GAP Generator charging it's own batteries			Bank-1 SOC was 100 percent. Bank-2 SOC was 80 percent.							Test No. 1 is SOC B4 test starts.			VEHICLE 10 minutes only.				28.3 Coil ohms			
Test ran on 2022-04-19 with 36 volt battery bank			Check input and output at end of each minute. This gives time for batteries to adjust.														2 Coils			
Test No.	Minutes AM	GAP AC Volts In	GAP AC Amps In	GAP AC Watts In	DC Volts Out	DC Amps Out	AC Volts Out	AC Amps Out	AC & DC Watts Out	DC volts to motor	Amps to motor	Watts to motor	CHG & to motor	CHG&MOTOF OU	Volts from Generator	Amps from Generator	Watts from Generator	Total Watts Over Unity		
1	2.09	38.10	0.00	0.00	25.03	0.00			0.00	0.00	0.00									
2	2.10	30.11	13.36	402.27	28.59	10.40	6.80	8.08	352.28	35.50	4.10	145.55	497.83	95.56	8.40	2.80	23.52	119.08		
3	2.11	31.95	8.49	271.26	30.28	6.40	8.17	4.90	233.83	35.80	3.70	132.46	366.29	95.03	9.50	2.50	23.75	118.78		
4	2.12	31.60	8.22	259.75	30.36	5.50	8.65	4.73	207.89	35.70	3.60	128.52	336.41	76.66	9.40	2.40	22.56	99.22		
5	2.13	31.48	7.88	248.06	30.49	5.20	8.86	4.51	198.51	36.20	3.60	130.32	328.83	80.76	9.10	2.40	21.84	102.60		
6	2.14	31.43	7.44	233.84	30.54	5.10	8.75	4.30	193.38	35.30	3.50	123.55	316.93	83.09	8.70	2.40	20.88	103.97		
7	2.15	30.86	7.24	223.43	30.53	5.10	8.75	4.16	192.10	35.20	3.50	123.20	315.30	91.88	8.40	2.30	19.32	111.20		
8	2.16	30.99	7.02	217.55	30.52	4.60	8.30	3.99	173.51	35.20	3.50	123.20	296.71	79.16	8.20	2.30	18.86	98.02		
9	2.17	30.23	6.73	203.45	30.51	4.40	7.87	3.87	164.70	35.30	3.40	120.02	284.72	81.27	7.90	2.30	18.17	99.44		
10	2.18	30.10	6.51	195.95	30.53	4.20	7.97	3.74	158.03	35.30	3.40	120.02	278.05	82.10	7.80	2.30	17.94	100.04		
11	2.19	30.29	6.28	190.22	30.53	4.80	7.18	3.60	172.39	35.20	3.40	119.68	292.07	101.85	7.60	2.30	17.48	119.33		
12	2.20	30.39	6.00	182.34	30.53	4.50	7.13	3.49	162.27	35.10	3.40	119.34	281.61	99.27	7.40	2.20	16.28	115.55		
		Average Watts >>>>		238.92			8.04	4.49	200.81			125.99	326.80	87.88			20.05	107.93		
SOC	2.21	37.00		SOC	25.95	Did the voltage in Bank-1 and Bank-2 trade places?														
SOC	2.22	37.10		SOC	25.80	Yes. This is what I was looking for.								This test had DC motor-generator attached to Bank-1 also.						
SOC	2.23	37.10		SOC	25.75	Look at column L. Then add column P to that.														
SOC	2.24	37.20		SOC	25.71	Charging it's own batteries plus more output.														
SOC	2.25	37.30		SOC	25.68	Watch videos.			The SOC to the left is most important.			This test represents a GAP Generator in a VEHICLE.								
SOC	2.30	37.30		SOC	25.61	Need GOOD batteries.														
SOC	2.40	37.40		SOC	25.55	Using six 6 Volt batteries for input.														
SOC	2.50	37.40		SOC	25.51	Home is minus output by Generator from DC Motor.								Bank-1 is 48 VDC Bank operating GAP from 36 volt section. Charging two 24 VDC banks in parallel.						
SOC		0.00		SOC	0.00	Bank-1 is 36 VDC Bank- is two 24 volt banks in parallel.								Bank-1 supplies Input & Bank-2 is being charged.						
				The GAP Generator for VEHICLE.					The GAP Generator for HOME.											
				346.85	Average watts output.					326.80	Average watts output.									
				238.92	Average watts input.					238.92	Average watts input.									
				107.93	Average Watts over unity					87.88	Average Watts over unity									
				145.17	Percent of unity.					136.78	Percent of unity.									

There is quite an improvement using a 48 volt battery bank for Bank-1.

If I had powered the DC motor with the full 48 volt bank, the output would have been much more.

The most important thing about these test is the fact that Bank-2 is going from 80 percent SOC to over 100 percent SOC.

Bank-1 is going from just under 100 percent SOC to 80 percent SOC. Not only this but is handling the additional load of the DC motor.

Percentage of increase in performance is: $107.93 / 88.21 \times 100 = 122.36$ or a 22.36 percent increase.