

N360GS**Load Analysis**

System Nominal Voltage 13.8 volts
 Alternator Rated Output 20 amps
 Alternator@ 80% 16 amps

Item	Minimum Current	Maximum Current	Maximum Power in Watts	Notes
Starter Motor	0.00			Not included in running analysis
Contactors	0.75	0.75		
Battery Contactor	0.70	0.70	9.66	Aircraft Wiring Guide - Marc Ausman
Magnetron Ignition	4.00	4.00	55.20	Estimated based on reading Briggs and Stratton documents
VHF Radio	0.12	1.20	16.56	From Tech Specs
EFIS				
ENIGMA	1.00	1.00	13.80	From Tech Specs
Magnometer	0.05	0.12	1.66	From Tech Specs
AHRs	0.05	0.12	1.66	From Tech Specs
Transponder	0.15	0.20	2.76	From Tech Specs
ADSB-OUT				
SkyFy GPS	0.50	0.50	6.90	Current Estimated based on fusing requirement
EchoUAT	1.45	1.45	20.01	Current Calculated based on power rating
Aveo Engineering Nav Lights	0.00	0.51	7.04	Measured on Bench Test
Aveo Engineering Strobes	0.00	2.00	27.60	Measured on Bench Test
Cockpit Lighting				
PWM Light Dimmer Switch	0.00	0.10	1.38	Estimated
Compass Light	0.00	0.10	1.38	Estimated
Red LEDs	0.00	0.10	1.38	Estimated
USB Power Outlet	0.10	1.90	26.25	Maximum Current estimated as - 4.2amp x 5v @ 80% efficiency
Total	8.87	14.75	193.23	

v2 October 8th, 2020

Removed Skybrite Nav and Strobes, Added Aveo Engineering Nav and Strobes - Saving 2 amps