

Vertical Power Device Current Draw Worksheet (Beta)

Note: the information below is provided by experiemantal aircraft builders to share with other builders. The accuracy of this information is not guaranteed by Vertical Power. If manufacturer's data conflicts with this data, use the manufacturer's data. If you have data for additional devices, or corrections, please send to info@verticalpower.com

Device	Vendor	Circuit Breaker	Wire Gauge	@ Volts	Sustained Amps	Xmit Amps	Remarks
Instruments/Avionics							
GNS 480 nav	Garmin	5		14	1.96		
GNS 480 com	Garmin	5		14	0.31	2.86	
GNS 430 nav	Garmin	5		14	2.13		
GNS 430 com	Garmin	10		14			
SL 30 nav	Garmin	2		14	0.57		
SL 30 com	Garmin	5		14	0.29	2.65	
SL 40	Garmin	5		14	0.29	2.65	
GPSMAP 296	Garmin			14	0.20		
GTX 330 + alt encoder	Garmin	5		14	1.44		1.18 - 1.44
GTX 327	Garmin	5		14	1.60		
SL 15	Garmin	3		14	0.34		
Clock	EI	1		14	0.03		
Icom A210	Icom	10		14	4.00	5.00	
EFIS	GRT	3		14	1.00		
EFIS (2) + AHRS + XM	GRT	5		14	3.64		Bright backlight; 1.85 dim
EFIS D10A	Dynon	3		14	1.00		
EFIS IDU-I	Chelton	5		14	2.30		
ADAHRS	Pinpoint	1					Includes MSU
Intercomm SPA-400	Sigtronics	2		14	0.10		
Fuel sender (capacitance conver	Princeton	2		14	0.02		
Traffic ATD-300	Monroy			14	0.10		
Ammeter	EI	3		14	0.11		
Turn & Bank	Mid-Continent	3		14	0.38		Mechanical gauge
Autopilot (DigiFlight II)	TruTrak	5		14	1.77		No increase when stick pushed
Autopilot (DigiTrak)	TruTrak	5		14	1.30		
Hobbs meter	Hobbs Corp	1		14	0.01		
EIS 4000	GRT	1		14	0.20		
AOA Sport/Pro	Advanced Flight	1		14	0.50		
Engine mon	Rocky Mtn	2		14	0.10		
CO Monitor	CO Guardian	1		14	0.08		
G900 GDU	Garmin	5					
G900 Comm	Garmin	5					
G900 Nav	Garmin	5					
G900 ADC	Garmin	5					
G900 AHRS	Garmin	5					
G900 Audio	Garmin	5					
G900 Transponder	Garmin	5					
G900 XM Wx receiver	Garmin	5					
Lights							
Inst Lights (incandescent)	Various	2		14	0.43		Bright; 0.11 dim
Landing light (75W)	Duckworks	10		14	5.19		Incandescent
Taxi light (75W)	Duckworks	10		14	5.20		Incandescent
Landing light (100W)	Duckworks	15	14	14	7.00		Incandescent
HID Landing Lt	Duckworks	10		14	4.00		Steady state, higher on start
Nav lights (3*28w incandescent)	Van's	7.5		14	5.27		Includes tail light
Nav lights (LED)	CreativeAir			14			Incandescent tail light
Strobes	Whelen	10		14	9.46		Fluctuates slowly 6.80 - 9.46
Eyeball lights (LED)		3		14	0.15		
Ignition							
LASAR	Unison	10		14	1.51		
E-Mag/P-Mag	E-Mag	3	18	14	0.35		
Electrical System/Other							
Elevator Trim Servo	Ray Allen	1		14	0.15		
Aileron Trim Servo	Ray Allen	1		14	0.15		
Battery contactor	Van's	n/a		14	0.72		
Voltage regulator-bus	B&C	2		14			

Voltage regulator-field	B&C	5	14		
Start contactor	Van's	8	14	3.17	
Pitot heat		10	14	6.30	
Flaps	Van's	5	14	3.87	In flt, down to 40 deg
Boost pump (fuel inj)	Van's	10	14	3.77	
Boost pump	Facet	5	14	1.50	