

Item	Amps/hr	# Hr/day	Amps/day		Notes				
<b>DC Items</b>									
Radar	2.333333	6	14		scanner=28W/8W standby				
Fishfinder/Chartplotter	1.6	6	9.6		20W @ full bright, #16AWG for 20 meters				
Tridata	0.1	8	0.8						
Wind Machine	0.1	8	0.8		AP: 12A fused, 8'-18AWG then 14AWG - 20'				
Autopilot	0.833333	4	3.333333		10W @ 25% duty - also supplies seatalk bus instruments				
GPS	0.25	8	2		1A fuse inline				
VHF Radio	0.5	8	4						
2M Ham	0.4	2	0.8						
IC-706	0.3	2	0.6						
Antenna Tuner	0.1	2	0.2						
CD Player	0.3	8	2.4						
Multi Instrument	0.1	8	0.8						
Laptop	4	2	8						
Refrigerator	2.4	24	57.6		8 hrs - 6 cuft	verify			
Windless	40	0.17	6.67		10 min	s/b 1 or 2AWG, is 4AWG			
compass	0.1	8	0.80						
bilge pump	6	0.083333	0.50		5 min/day				
macerator	12	0.133333	1.60		6.1 gpm. Tank = 21gal. 2x/wk unfill = 8 min				
pressure water pump	6	0.5	3.00		15A fuse, 16AWg to 20'				
<b>Lights</b>									
Anchor	1	12	12						
Steaming	1	2	2						
Mast/Deck	1	1	1						
Running	1.6	2	3.2		Bow = 10W, 904-00200				
Kitchen top	3	3	9		10W/20W G-4 Halogen				
Chart table - dual	1	4	4						
Chart table - chart	1	2	2						
Refer light	1	2	2						
microwave light	1	2	2						
port reading lights	2	4	8						
stbd reading light	2	4	8						
aft cabin	1	1	1						
bathroom	1	1	1						
V berth - both	2	1	2						
Cell phone charger	1	2	2						
Subtotal			176.7						
					DC Amps				
	watts/hr	#hr/day	watts/day	per day	Notes				
<b>AC Items</b>									
Microwave	1000	0.25	250	25					
Blender	500	0.15	75	7.5					
TV/VCR	40	3	120	12	3 hrs				
Space Heater	0	1	0	0	600-1500W, AC Shore Only				
Hair Dryer	1000	0.17	166.67	16.67	10 min				
electric drill	500	0.08	41.67	4.17	5 min				
tool chargers	50	2.00	100.00	10.00					
Vacuum	600	0.08	50.00	5.00	5 min				
Water Heater	1500				AC shore only				
subtotal				80.33					
Total DC Amps/day			257						
House Bank Capacity @ 2X DC Amps			514.00		gals/fuel @ .5gal/hr	Cost/day			
Engine Run time at 70 Amps/hr			3.67		1.84	\$1.49	\$2.74		
Engine Run time at 110 Amps/hr			2.34		1.17	\$1.49	\$1.74		
2500W Invertor should have 500AH battery capacity									
Alternator Output		min@20%	102.8		max@40%	205.6			

