

DC Switch Panel - Galley																					
Overhead Lights (switch)				NA	NA	NA															
Counter Lights (switch)				NA	NA	NA															
Fans (switch)				NA	NA	NA															
Spare (switch)				NA	NA	NA															
DC Switch Panel - Aft Cabin																					
Overhead Lights (switch)				NA	NA	NA															
Fans (switch)				NA	NA	NA															
Masterswitch Dimmer (panel)																					
DC Switch Panel - Aft Head																					
Overhead Lights (switch)				NA	NA	NA															
Sump Manual Override (switch)				NA	NA	NA															
Toilet Flush (momentary button)				NA	NA	NA															
DC Subpanel - Fwd Cabin																					
Overhead Lights (breaker)	20'	12	15	12	10.0	120	0.25	0.02	3	0.25	0.02	3	0.25	0.01	1	0.25	0.01	1	0.25	0.01	1
Foot Lights (breaker, on/off)	20'	12	10	12	1.0	12	0	0.00	0	4	0.33	4	4	0.33	0	4	0.33	1	4	0.33	0
Gray Water Pump (breaker)	10'	12	25	12	15.0	180	0.5	0.04	8	0.3	0.03	5	0.5	0.02	4	1	0.04	8	1	0.04	8
Black Water Pump (breaker)	15'	12	25	12	20.0	240	0.1	0.01	2	0.1	0.01	2	0.1	0.00	1	0.3	0.01	3	0.3	0.01	3
Toilet Pump (breaker)	15'	12	10	12	10.0	120	0.5	0.04	5	0.5	0.04	5	0.5	0.02	3	1	0.04	5	1	0.04	5
Cabin Fans/Reading Lights (breaker)	15'	12	5	12	1.0	12	3	0.25	3	3	0.25	3		0.00	0		0.00	0		0.00	0
AC Blower (breaker)	15'	12	10	12	4.7	57								0.00	0	24	1.00	57	18	0.75	43
Spare (breaker)			15	12	0.0	0								0.00	0		0.00	0		0.00	0
Spare (breaker)			15	12	0.0	0								0.00	0		0.00	0		0.00	0
Spare (breaker)			15	12	0.0	0								0.00	0		0.00	0		0.00	0
Masterswitch Dimmer (panel)																					
Dome Lights (switch)				NA	NA	NA															
Fans (switch)				NA	NA	NA															
Subtotal				12	61.7	741			20			21									
DC Switch Panel - Fwd Head																					
Overhead Lights (switch)				NA	NA	NA															
Vanity Light (switch)				NA	NA	NA															
Shower Lights (switch)				NA	NA	NA															
Sump Manual Override (switch)				NA	NA	NA															
Toilet Flush (momentary button)				NA	NA	NA															
Main 12VDC Panel																					
Fresh Water Pumps (breaker)	15'	10	40	12	32.0	384	2	0.17	64	2	0.17	64	2	0.08	32	2	0.08	32	2	0.08	32
Bilge Pumps (breaker)	40'	8	75	12	67.0	804	0	0.00	0	0	0.00	0		0.00	0		0.00	0		0.00	0
Cabin Heater Circ Pump (breaker)	40'	10	10	12	7.1	85	4	0.33	28	6	0.50	43		0.00	0		0.00	0	18	0.75	64
Cabin Heater Blowers (breaker)	30'	12	5	12	20.0	240	4	0.33	80	6	0.50	120		0.00	0		0.00	0	18	0.75	180
Engine Space Blower (breaker)	15'	10	35	12	28.0	336	4	0.33	112	4	0.33	112		0.00	0		0.00	0		0.00	0
Battery Blower (breaker)	20'	12	5	12	2.0	24	12	1.00	24	12	1.00	24		0.00	0		0.00	0		0.00	0
LPG Monitor (breaker)	30'	12	5	12	5.0	60	12	1.00	60	12	1.00	60	12	0.50	30	12	0.50	30	12	0.50	30
Windscreen Defrost (breaker)	10'	12	40	12	30.0	360															
Oil Change Pump (breaker)			20	12	15.0	180															
Air Compressor (breaker)	25'	10	30	12	20.0	240								0.00	0		0.00	0		0.00	0
Bilge Pump - Fwd (control panel)			19	NA	NA	NA															
Bilge Pump - Mid (control panel)			10	NA	NA	NA															
Bilge Pump - Engine Room (control panel)			19	NA	NA	NA															
Bilge Pump - Aft (control panel)			19	NA	NA	NA															
Subpanel #1 - Forward 100A	10'	2	100	12	62	741	0	0.00	20	0	0.00	21	0	0.00	0		0.00	0		0.00	0
Subpanel #2 - Mid/Aft 100A	10'	2	100	12	101	1212			15		0.00	54		0.00			0.00			0.00	
Subpanel #3 - Electronics 50A	6'	4	50	12	46	548	0	0.00	128	0	0.00	128	0	0.00	0		0.00	0		0.00	0
Subpanel #4 - Nav Lights 50A	6'	4	50	12	11	126	0	0.00		0	0.00	126	0	0.00	0		0.00	0		0.00	0
TOTAL DC Watts				12	1045.1	12541			684			905			62			62			306
TOTAL DC Amps						1045			57			75			5			5			25

AC LOADS																				
120 VAC Panel																				
Dishwasher	12	15	120	12.5	1500	2	0.17	250	0	0.00	0	3	0.13	188	3	0.13	188	2	0.08	125
Washer/Dryer	10	20	115	12.5	1438	0	0.00	0	0	0.00	0	2	0.08	120	2	0.08	120	3	0.13	180
Watermaker	8	40	120	25.4	3048	1	0.08	254	1	0.08	254	3	0.13	381	5	0.21	635	0	0.00	0
Air Conditioning/Refrigeration	8	40	115	33.0	3795	2	0.17	633	0.5	0.04	158	2	0.08	316	24	1.00	3795	2	0.08	316
Computer #1	12	20	120	0.5	60	12	1.00	60	12	1.00	60	6	0.25	15	12	0.50	30	12	0.50	30
Computer #2	12	20	120	0.5	60	12	1.00	60	12	1.00	60	6	0.25	15	12	0.50	30	12	0.50	30
Computer #3	12	20	120	0.5	60	6	0.50	30	12	1.00	60	6	0.25	15	12	0.50	30	12	0.50	30
Plasma TV	12	10	120	3.3	396	0	0.00	0	2	0.17	66	6	0.25	99	8	0.33	132	8	0.33	132
TV Lift	10	10	120	3.1	372	0	0.00	0												
Entertainment Electronics	12	15	120	2.5	300	2	0.17	50	2	0.17	50	4	0.17	50	8	0.33	100	8	0.33	100
Hot Water Spigot	12	10	120	21.0	2520	0.1	0.01	21												
Microwave	12	20	120	13.3	1596	0.5	0.04	67	0.5	0.04	67	2	0.08	133	3	0.13	200	2	0.08	133
110V Outlets(x4) Aft	12	15	115	12.5	1438	1	0.08	120	0.25	0.02	30	1	0.04	60	2	0.08	120	2	0.08	120
110V Outlets(x4) Mid	12	15	115	12.5	1438	0.5	0.04	60	0.25	0.02	30	1	0.04	60	2	0.08	120	2	0.08	120
110V Outlets(x2) Forward	12	15	115	12.5	1438	0.5	0.04	60	0.25	0.02	30	1	0.04	60	2	0.08	120	2	0.08	120
110V Outlets Storage Aft	12	15	115	12.5	1438	0.1	0.01	12	0.1	0.01	12	0.1	0.00	6	0.1	0.00	6	0.1	0.00	6
110V Outlets Dinghy Locker	12	15	115	12.5	1438	0.1	0.01	12	0.1	0.01	12	0.1	0.00	6	0.1	0.00	6	0.1	0.00	6
Spare		15																		
Spare		15																		
Spare		15																		
Subtotal			120	162.1	19457			1688			888			1523			5630			1447
TOTAL AC			120	162.1	19457			1688			888			1523			5630			1447

TOTAL AC Amps								14			7			13			47			12
Margin (20%)								338			178			305			1126			289
TOTAL								2025			1066			1828			6756			1737

DC Amps - Inverter								177.6			93.5			160.3			296.3			152.3
TOTAL DC Amps								235			169			166			301			178
Margin @ 10%								23			17			17			30			18
TOTAL Margined DC Amps								258			186			182			332			196
Hours Draw								7.1			8.2			8.5			15.3			15.9
Total Amperage Draw, Amp-Hours								1830			1532			1548			5088			3118

Battery Bank																				
Battery Capacity, 4 Volt, 1350 amp-hr each								1350			1350			1350			1350			1350
Number of Batteries								3			3			3			3			3
Acceptance Rate amps @ 20% capacity								270			270			270			270			270

Genset																				
Genset Hours								6.8			5.7			5.7			18.8			11.5
Genset/Total (%)								56%			47%			48%			79%			48%

Diesel Consumption																				
Fuel Consumption (gal/mo) - Genset								33.0			27.7			27.9			91.9			56.3
Fuel Consumption (gal/mo) - Heater																				72
Total Diesel Fuel per Mo. - genset, heating								33.0			27.7			27.9			91.9			128.3