Electrical Budget Worksheet (Sparky Pearson Electra 22) ¹ Calculate your DC Loads:

		,				
	Lighting		Amps	Hours	AH/Day	
		Running Lights			0.0	
		Masthead Tricolor Light	0.4	8	3.0	
		Anchor Light			0.0	
		Strobe Light			0.0	Using ACR Firefly hoisted up the mast on a pigstick - uses AA batteries.
		Spreader Lights			0.0	
		Cabin Light (small)			0.0	Using LED Puck lights purchased from COSTCO that take AAA batteries.
		Cabing Light (big incandescent)			0.0	g · · · · · · · · · · · · · ·
		Cabing Light (flourescent)			0.0	
		Instrument Lights			0.0	
		Handheld Spot Light			0.0	
		Other	Lighting AL	г	0.0	
			Lighting AH	L	3.0	
	Galley		Amps	Hours	AH/Day	
	,	Refrigeration			0.0	
		Prop Solenoid			0.0	
		Other			0.0	
		Guici	Galley AH	Г	0.0	
			Calley / 11	L	0.0	
	Electroni	cs	Amps	Hours	AH/Day	
		Autopilot	1.5	15	22.5	
		VHF (receive)	0.3	3	0.8	
		VHF (transmit)	5.0	3	15.0	
		SSB (receive)	2.5	1	2.5	
		SSB (transmit)	30.0	1	30.0	
			50.0		0.0	
		SSB Digital controller GPS	1.2	24		
			1.2	24	28.8	
		Instruments			0.0	
		Weather fax receiver			0.0	
		Radar (standby)			0.0	
		Radar (transmit)			0.0	
		AIS	1.2	8	9.6	
		Energy Monitors			0.0	
		Stereo			0.0	
		Computer (screen off)			0.0	
		Computer (screen on)			0.0	
		Computer (serial adapter)			0.0	
		Other		-	0.0	
		EI	lectronics AH	L	109.2	
	.					
	Plumbing	•	Amps	Hours	AH/Day	
		Fresh Water Pump		0	0.0	Calculate using average water consumption.
		Bilge Pump(s)		0	0.0	This should be zero unless the boat leaks.
		Other		0	0.0	
			Plumbing AH		0.0	
			14/	Line (day a		All
	Inverter	N4'	Watts	Hrs/day	AH/Day	All values assume inverter efficiency = 85%.
		Microwave		0	0.0	Power factor may mess up this estimate.
		Chargers (nicad)			0.0	
		Other		0	0.0	
			Inverter AH	L	0.0	
			2	г	440.0	
		Gross Energy Consumption AH/Day		L	112.2	
2	Alternative	Alternative Energy Sources				
-	Alternative	Device	Amps	Hrs/day	AH/day	
		Solar, avg	6.0	6	36.0	Assumes one large panel.
		Wind, avg	0.0	0	0.0	
				0	0.0	Assumes AIR Marine wind turbine in good location.
		Water, avg. Contribution of AES AH/Day		Ŭ L		
		Contribution of AES AH/Day		L	36.0	
3	Net Energ	Net Energy Consumption, AH/Day		Г	76.2	
3	INEL LITERY	Net Energy Consumption, Alizbay		L	70.2	
4	Desired Hours Between Charging			Г	48	
				-		
5	Range of	Range of Battery Use		L	0.50	For example, from 50-85% state of charge.
6	Recommended Battery Capacity		Г	305		
_				F		T
7	Alternator	Alternator Output, Amps		L	85	Target would be 25% flooded, 40% gel, of capacity.
8	Charge Ef	Charge Efficiency Factor		Γ	0.85	Gels = 95%, flooded cells = 85%
9	Minimum	Minutes to Charge		Ľ	127	Assumes alternator runs at full output.