Electrical Budget Worksheet (Harrier - Finn Flyer 31) 1 Calculate your DC Loads:

	Lighting		Amps	Hours	AH/Day		
		Running Lights Masthead Tricolor Light			0.0 0.0		
		Anchor Light			0.0		
		Strobe Light			0.0		
		Spreader Lights Cabin Light (small)			0.0 0.0		
		Cabing Light (big incandescent)		0.0		
		Cabing Light (flourescent)			0.0		
		Instrument Lights Handheld Spot Light			0.0 0.0		
		Other			0.0		
1.1			Lighting AH			=	lighting sum
	Galley		Amps	Hours	•		
		Refrigeration Prop Solenoid			0.0 0.0		
		Other			0.0		
1.2			Galley AH			=	galley sum
	Electronic	es Autopilot	Amps	Hours	AH/Day 0.0		
		VHF (receive)			0.0		
		VHF (transmit)			0.0		
		SSB (receive) SSB (transmit)			0.0 0.0		
		SSB Digital controller			0.0		
		GPS			0.0		
		Instruments Weather fax receiver			0.0 0.0		
		Radar (standby)			0.0		
		Radar (transmit)			0.0		
		AIS Energy Monitors			0.0 0.0		
		Stereo			0.0		
		Computer (screen off)			0.0		
		Computer (screen on) Computer (serial adapter)			0.0 0.0		
		Other			0.0		
1.3			Electronics AH			=	electronics sum
	Plumbing	Fresh Water Pump	Amps	Hours	AH/Day 0.0		Coloulate using everage water consumption
		Bilge Pump(s)			0.0		Calculate using average water consumption. This should be zero unless the boat leaks.
1.4		Other			0.0		
			Plumbing AH			=	plumbing sum
	Inverter	Mierowaya	Watts	Hrs/day	•		All values assume inverter efficiency = 85%.
		Microwave Chargers (nicad)			0.0 0.0		Power factor may mess up this estimate.
1.5		Other			0.0		
			Inverter AH			=	inverters sum
	Gross Energy Consumption AH/Day					=	Lines 1.1+1.2+1.3+1.4+1.5
2	Alternative	Energy Sources Device	Amps	Hrs/day	AH/day		
		Solar, avg	Amps	i ii 5/uay	0.0		Assumes one large panel.
		Wind, avg			0.0		Assumes AIR Marine wind turbine in good location.
		Water, avg. Contribution of AES AH/Day			0.0	=	sum of alternative energy sources
2	Not Energy	,					-
3	Net Energy Consumption, AH/Day				=	gross energy consumption - contribution from AES	
4	Desired Hours Between Charging					For example from FO OFSV state of these	
5 6	Range of Battery Use Recommended Battery Capacity					_	For example, from 50-85% state of charge.
7	Alternator Output, Amps					=	(Line 3 x Line 4 / 24) / Line 5 Target would be 25% flooded, 40% gel, of capacity.
8	Charge Efficiency Factor						Gels = 95%, flooded cells = 85%
9	_	Minutes to Charge				=	(((Line 3 x Line 4 / Line 8) / Line 7) / 24) x 60
J	wiii iii ii i	atoo to ondigo				-	Assumes alternator runs at full output.