

# Electrical Budget Worksheet ( Haulback)

1 Calculate your DC Loads:

Lighting		Amps	Hours	AH/Day	
	Running Lights			0.0	
	Masthead Tricolor Light	0.1	12	1.2	
	Anchor Light			0.0	
	Strobe Light			0.0	seldom, if ever used
	Spreader Lights	1.1	1	1.1	
	Cabin Light (small)			0.0	
	Cabing Light (big incandescent)	0.3	6	1.8	total of all cabin lights together
	Cabing Light (flourescent)			0.0	
	Instrument Lights			0.0	
	Handheld Spot Light			0.0	doubtful if it will see use
	Other			0.0	
	Lighting AH			<b>4.1</b>	
Galley		Amps	Hours	AH/Day	
	Refrigeration			0.0	none
	Prop Solenoid	0.5	1.5	0.8	
	Other			0.0	
	Galley AH			<b>0.8</b>	
Electronics		Amps	Hours	AH/Day	
	Small autopilot	1.5			usage unknown
	large autopilot	2.5		0.0	usage unknown
	VHF standby	0.1	24	2.4	
	SSB (receive)	1.0	1	1.0	
	SSB (transmit)	5.0	0.5	2.5	
	SSB Digital controller			0.0	
	GPS	0.1	24	2.4	
	Instruments	0.1	24	2.4	
	Weather fax receiver	0.3	24	7.2	on standby, 1.2 amps when printing fax x 3 hours
	Radar (standby)	0.7		0.0	usage unknown
	Radar (transmit)	1.5		0.0	usage unknown
	AIS			0.0	
	Energy Monitors			0.0	
	Stereo			0.0	
	Computer (screen off)			0.0	
	Computer (screen on)	0.8	2	1.6	
	Computer (serial adapter)			0.0	
	Other			0.0	
	Electronics AH			<b>19.5</b>	
Plumbing		Amps	Hours	AH/Day	
	Fresh Water Pump			0.0	
	Bilge Pump(s)			0.0	
	Other			0.0	
	Plumbing AH			<b>0.0</b>	
Inverter		Watts	Hrs/day	AH/Day	
	Microwave			0.0	
	Chargers (nicad)			0.0	
	Other			0.0	
	Inverter AH			<b>0.0</b>	
	Gross Energy Consumption AH/Day			<b>24.4</b>	

2 Alternative Energy Sources

Device	Amps	Hrs/day	AH/day	
Solar, avg			0.0	no idea, can only guess
Wind, avg			0.0	
Water, avg.			0.0	
Contribution of AES AH/Day			<b>0.0</b>	

3 Net Energy Consumption, AH/Day

**24.4**

4 Desired Hours Between Charging

depends... maybe never

5 Range of Battery Use

don't understand question

6 Recommended Battery Capacity

**400**

7 Alternator Output, Amps

125 amp, but regulated to about 50% state of depletion

8 Charge Efficiency Factor

9 Minimum Minutes to Charge

**no one really knows!!!!**