BOODOCKING ENERGY CALCULATION PER DAY (FC 23FB 2011)

24 / 7 Phanton loads = 6,8 Amp-Hre per day

		DC Amp.	Watt	Hre	PER 24 Hours Amp-Hre	PER 24 Hours Watt-Hre
DC MATERIALS	CatCon Monitor System	0,06	0,762	0,5	0,03	0,38
	"Store / Use" Disconnect Switch	0,0075	0,09525	24	0,18	2,29
	Fantastic Fan (Low-speed) 1 of 2 (MEDIUM: 1,5A HIGH: 2 A)	1,1	13,97	4	4,4	55,88
	Sony Receiver OFF (Front display lit with clock)	0,74	9,398	4	2,96	37,59
	Sony Receiver ON (1.5 Amp @ high volume)	1,125	14,2875	2	2,25	28,58
	Sony Receiver (Playing a CD/DVD)	1,2	15,24	1	1,2	15,24
	Sub Woofer speaker St-By mode	0,075	0,9525	24	1,8	22,86
	Sub Woofer high volume	0,25	3,175	1	0,25	3,18
	Refrigerator (Power On; NO COOLING)	0,06	0,762	24	1,44	18,29
	Refrigerator (COOLING MODE) {,22 A propane gas valve}	0,22	2,794	15	3,3	41,91
	Refrigerator fans (3) (Noctua NF-S12A FLX)	0,21	2,667	20	4,2	53,34
	Victron Energy Monitor BMV-700 + Bluetooth	0,03	0,381	24	0,72	9,14
	Propane Leak detector	0,07	0,889	24	1,68	21,34
	Water Heater (IN USE)	0,6	7,62	2	1,2	15,24
	Water Heater (St-By mode; Remote Switch at On)	0,12	1,524	4	0,48	6,10
	Furnace 18K BTU (Fan ONLY)	3	38,1	0	0	0,00
	FURNACE 18K BTU (FAN & Gas Burner in operation)	3,5	44,45	0	0	0,00
	DOMETIC Digital Thermostat (,035 A Back light On)	0,015	0,1905	24	0,36	4,57
	Fresh water pump IN USE	10	127	0,5	5	63,50
	Fresh water pump (St-By mode; Remote Switch @ On)	0,01	0,127	24	0,24	3,05
	Hood Range Fan	3,5	44,45	1	3,5	44,45
	Solar control panel (GoPower 4 stages 25 Amp. PWM Controler)	0,016	0,2032	24	0,384	4,88
	TV Antenna Amplifier	0,085	1,0795	3	0,255	3,24
	12 Volts Cel Phone Charger	0,5	6,35	2	1	12,70
DC LIGHTS	Bathroom (2 LED lamps)	0,36	4,572	2	0,72	9,14
	Ceiling Main room (8 LED lamps)	1,5	19,05	0,25	0,375	4,76
	Hood Range light (2 LED lamps @ 155mA/Lamp)	0,31	3,937	3	0,93	11,81
	Over the Sink light (2 LED lamps)	0,36	4,572	1	0,36	4,57
	Over the table light (2 LED lamps)	0,36	4,572	3	1,08	13,72
	Bedroom Wardrobe light	0,18	2,286	0	0	0,00
	Road side Wardrobe Light	0,18	2,286	0	0	0,00
	Bedroom ceiling light (4 LED lamps)	0,75	9,525	0,25	0,1875	2,38
	Bedroom reading lamps (2 @ .190 Amp each)	0,38	4,826	3	1,14	14,48
	Outside wall light	0,16	2,032	2	0,32	4,06
	Outside near the main door light	0,062	0,7874	8	0,496	6,30
	Barker hitch light (LED)	0,03	0,381	8	0,24	3,05
	Outside access Trunk (2 LED lamps)	0,18	2,286	0	0	0,00
	Black and Grey holding tanks light (LED)	0,075	0,9525	0	0	0,00
AC MATERIAL	Power On Inverter	0,084	1,0668	12	1,008	12,80
	AC analogue Voltmeter	0,07	0,889	12	0,84	10,67
	Wi-Fi: St-By mode (LED lights and Relay) (,130 A @ 117VAC)	0,13	1,651	3	0,39	4,95
	Wi-Fi: Powered Antenna/Router/Relay (,06 A @ 117VAC)	0,6	7,62	3	1,8	22,86
	I-Pad Tablet Charging	0,93	11,811	2	1,86	23,62
	Samsung 19" TV Power OFF (,027 A @ 117VAC)		3,159	2	0,234	6,32
	Samsung 19" TV Power ON (,18 A @ 117VAC)		21,06	2	1,56	42,12
	Toslink Audio Digital converter (,0026 A @ 117VAC)		0,3042	2	0,0225	0,61
	CONSUMPTION TOTAL (per 24 hours)				**50,39**	**665,96**

ENERGY PROVIDED BY LEAD ACID BATTERIES				Victron BMV-701 Setting: OEM Batteries @ 150 Amp-hre
OEM ON BOARD BATTERY (2)	TOTAL CAPACITY (84 x 2 = 168 Amp-hre)			
	USABLE CAPACITY (50% of rated)	84	1066,8	
ADDITIONNAL BATTERY (AGM)	ADDITIONAL CAPACITY (100 Amp-Hre)			
	USABLE CAPACITY (50% of rated)	50	635	
				Victron BVM-701 Setting: Including additional battery @ 240 Amp-hre
TOTAL AVAILABLE ENERGY (ALL 3 BATTERIES) (Amp-hre / Watt)		134	1701,8	

AVAILABLE ENERGY NET PER DAY (Amp -hre / Watt) ----------> 83,61 1035,84

ENERGY PROVIDED BY SOLAR PANEL (PER DAY)				At illumination of 66 750 Lux		
MAIN SOLAR PANEL	95 watts (@ 800 w/m²) {Maximum: 5.53 Amp Bulk Stage}	3,871	49,1617	7	27,10	344,13
				70% of Light Exposure		
ADDITIONNAL PORTABLE SAMLEX PANEL	90 Watts (@1000 w/m²) {Maximum: 5.16 Amp Bulk Stage}	3,612	45,8724	7	25,284	321,11
				70% of Light Exposure		

GRAND TOTAL PER DAY NET AVAILABLE ENERGY (Amp-hre / Watt) ----------> 85,60 1035,13