Category	Component	Qty	Watts	Amps	Volts	Usage	Hours Per Day	Ah per Day	Watt Hours Per Day	Function	Notes
Navigation and Sailing Electronics	B&G Zeus 3S Chartplotter	1	27	2.25	12	sailing	5	11.25	135		18-36w - we usually run full brightness
	B&G Triton2 Multi-Function Displays (MFDs)	3	4	0.25	12	sailing	5	3.75	60		
	Simrad GS-15 GPS Antenna	1	0.06	0.05	12	sailing	5	0.25	0.3		
	New DST Transducer (Nov 2024)	1	0.6	0.05	12	sailing	5	0.25	3		
	Simrad AP42 Autopilot Computer and Key Controller	1	15	1	12	sailing	5	5	75		
	Simrad RF-25 Rudder Reference Unit (2024)	1	0.4	0.03	12	sailing	5	0.15	2		
	B&G 608 Wind Sensor (2/2023)	1	0.5	0.03	12	sailing	5	0.15	2.5		
	Jeffa DU-DD1-12 Autopilot Motor	1	180	15	12	sailing	3	45	540		
Battery System	Vision V31-115A-AM AGM Batteries (Group 31, 115Ah ea)	4									230 usable Ah at full health
	AGM Starter Battery (2/2024)	1									
Charging and Power Management	Victron MultiPlus Compact 12/1600/70-16 Inverter/Charger	1	8	0.67	12	24/7	24	16.08	192	12V Inverter/Charger	1300W continuous inverter, 70A charger. Draws 8 watts just being idle. idle only in calculation for Ah per day
	Victron Digital Multi Control (DMC) panel	1				24/7	12	0	0	Remote control panel for MultiPlus	Controls shore/gen input current, charger settings
	Victron Autotransformer 120/240V 32A	1								Shore power voltage balancing	Smooths voltages between split-phase systems, useful for U.S. vs Euro shore power
	Sterling Power Voltage Sensitive Relay (VSR)	1								Voltage Sensitive Relay	Automatically combines/separates batteries (start vs house banks)
	EP Solar Tracer MPPT Solar Charge Controller	1		0.1	12		24	2.4	0	Solar charge controller	Very efficient, especially with 24V panels to 12V battery
	EP Solar MT-5 Remote Display	1		0.1	12		24	2.4	0	Monitor for solar system	Displays volts, amps, watts from solar input
	No dedicated SmartShunt or BMV battery monitor yet	0								(missing advanced battery monitor)	Suggest adding Victron SmartShunt 500A or BMV-712 later
	Shore Power Connection	1								Main AC shore input	Typically 30A or 50A @ 120V or 240V depending on marina
	Panda 4000i Generator	1								Small diesel genset (~3.2–3.5 kW output)	Good for topping batteries or running heavy loads when off-grid
	Mystery Victron Box - maybe Engergy Isolation Transformer	1								Possibly Energy Isolation Transformer	(protects against galvanic corrosion and shore power faults)
Solar Panels	CSUN260-60P Solar Panels (260W each, 520W total)	2	260								est 3.1kw/h day production @ 75% efficiency 8 hours per day.
Refrigeration / Cooling	Isotherm House Refrigerator (CR-42?)	1	60	2.5	24	24/7	12	30	720		calculation assumes duty cycle (50%)
	Dometic DC-30 Cooling Drawer	1	43	1.8	24	24/7	12	21.6	516		calculation assumes duty cycle (50%)
	SetPower PT55 Cooler	1	52	*4.33*	12	24/7	12	52	624		calculation assumes duty cycle (50%). 38-52watts
Lighting, Fans, and Misc	Cabin Lighting (25 led)	1	40	3	12	evening	4	12	160		"real world" partial use - half on
	Cabin Fans (12v?)	4	4	0.5	12	evening/sleep	12	24	192		
	Anchor Light	1	1.5	0.2	12	evening/sleep	12	2.4	18		
	Fusion RA70N Audio	1	36	3	12	sailing/evenin	7	21	252		
	iCom M-423 (?) VHF	1	11	1.4	13.8	sailing/evenin	7	9.8	77		1.4-5.5 amps depending on transmit high/low - watts estimated using low power. High power is closer to 80w transmit
Heavy Duty / Momentary Loads	2 × Lewmar 2000W Electric Winches	2	800	35	24	Momentary	1	70	1600		
	Windlass (1000W est.)	1	1000	35	24	Momentary	0.25				assume we run engine using this...
Device Charging	MacBook Pros	2		5	12		3	30	0		
	iPhones	4		2.1	12		4	33.6	0		
Plumbing / Pumps	Freshwater Pump	1	190	8	24	Momentary	0.5	4	95		
	Jabsco Shower Sump Pumps	2	100	4.5	24	Momentary	0.1	0.9	20		
	Bilge Pump	1	120	5	24	Momentary	0.1	0.5	12		
Electrical Infrastructure	Three Keyed Battery Switches (Engine, Generator, House/DC)										
	Philippi DC and AC Panel System										
							Total Ah/Day->	398.48	5295.8		
							Top 10% ->	343.28			
	minimal	1									