

Item	Mfr	Model	Vender	Qty	Each	Total	Notes
*** Alternator charging:							
DC/DC Battery Charger	Victron	Orion-Tr Smart 12/12 30 Non-Isolated Bluetooth	Amazon	1	\$220.15	\$220.15	Non-isolated required for camper running lights, due to grounding in the camper.
Battery Monitor	Victron	BMV-712 w/temperature sensor	Amazon	1	\$226.00	\$226.00	Could substitute BMV SmartShunt w/ temperature sensor @ \$155.
Surface Mount Circuit Breaker, 50 Amps	Eaton Bussmann	CB285-50	Powerwerx	2	\$27.99	\$55.98	
Cable Duplex/Sheathed 6AWG		Red/black, per ft.	Amazon	25	\$5.47	\$136.83	Buy direct marinervewire.com . Could run a pair of unsheathed cables. Powerwerx sells bulk cable.
Power plug	Marino	70A 3-conductor	Home Depot	1	\$70.00	\$70.00	Next time I will just use a 2-cond powerpole connector.
Bus Bars	Blue Sea	2315 100A Mini BusBar 4 Gang with Cover	Powerwerx	2	\$14.49	\$28.98	
12V fan		92mm x 92mm	Amazon	1	\$10.00	\$10.00	
12v thermostat		W1209	Amazon	1	\$4.00	\$4.00	Could use a simple thermostat relay, a much simpler solution.
Total						\$751.94	
*** Lithium battery:							
100Ah Lithium Battery w/ BT and builtin protection	Discover Battery	DLB-G24-12V	Northern Az Wind & Solar	1	\$939.55	\$939.55	Not happy with the builtin BMS system: doesn't report correctly at low current draws.
120V Battery Charger	Victron	BlueSmart IP22 12 30	Amazon	1	\$186.15	\$186.15	Replaces FWC IOTA charger, required for lithium battery.
Total						\$1,125.70	
*** Rooftop solar:							
Solar Panel, Flexible, 175W	Renogy	RNG-175DB-H-US	Renogy	2	\$329.00	\$658.00	
Solar Charge Controller	Victron	SmartSolar MPPT 100 20 Bluetooth	Amazon	1	\$157.25	\$157.25	
MPPT Remote Control/Display	Victron	MPPT Control	Amazon	1	\$78.20	\$78.20	*Not required if relying on bluetooth
VE.Direct Cable	Victron	VE.Direct Cable	Amazon	1	\$14.45	\$14.45	*Not required if relying on bluetooth
Surface Mount Circuit Breaker, 25 Amps	Eaton Bussmann	CB285-25	Powerwerx	1	\$27.99	\$27.99	
Total						\$935.89	
Grand Total						\$2,813.53	