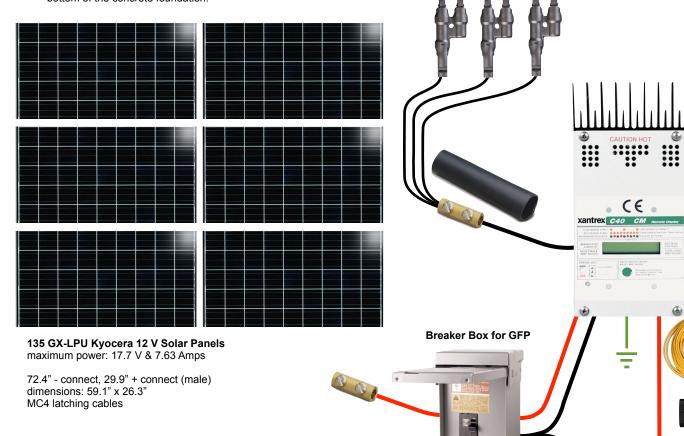


810 PV Watts for a 12V system

Mounted on a 6" schedule 40 metal pole PV rack is grounded via bare copper cable, which is strung through inside of metal pole to a grounding rod pounded 5 feet deeper than the bottom of the concrete foundation.

Each set of MC4 connectors is plugged into an adapter, then the remaining 3 lines are spliced together at the top of the pole



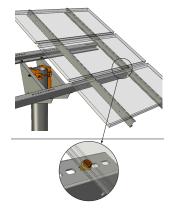
Cooper Bussmann 70 Amp resettable circuit breaker on positive wire for reverse feedback protection

#2 AWG, 90° C insulation wire for interior wiring from PVGFP connection to bus bars, cable lug

needed

Xantrex C60 Solar Charger with optional Integrated Faceplate DVM for C-Series and Xantrex Battery Température Sensor

Iron Ridge Universal Top-of-Pole Mount UNI-TP/08LL



3x F-M-M connectors

PV Connections (x3 panels) MC4 type



80' cable (#2 AWG, 90° C insulation) to maintain <5 % voltage drop, cut in half to make 2 x 40' pieces to route into garage

3x 10' M-F cable for combining panels (cut ea. in half)

dozens of zip ties

#2 - #8 cable splicer (x2) Connector MC4 and cable

Outback Power 80 Amp single pole PV ground-fault detector interrupter

customize Square D breaker box for mounting GFP inside



RAB Weatherproof MR16 fixture

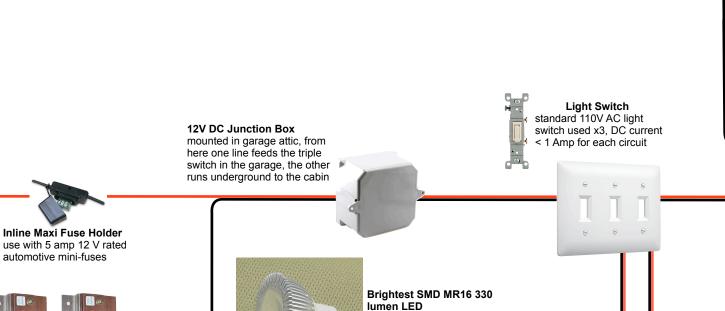
die cast aluminum with powder finish, "O" ring stainless steel hardware,





RAB R14-3B faceplate + B3B rectangular box three hole face plate for sensor + spot lights, ~ \$5 ea





RAB Stealth 12V motion sensor programable for 5 seconds to 12 minutes time adjustment, 1 watt

power consumption, 96 watts max output, ~ \$100

RAB R14-1B

pure white 4.6 watt, 45 degree

spot illumination, -20°C to

120°C operating, ~ \$23

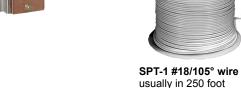
one hole face plate for spot light over service door aimed at cabin + standard rectangular box

RAB R14-1B

one hole face plate for spot light by work bench + standard rectangular box



. . .



spools, ~ \$30