

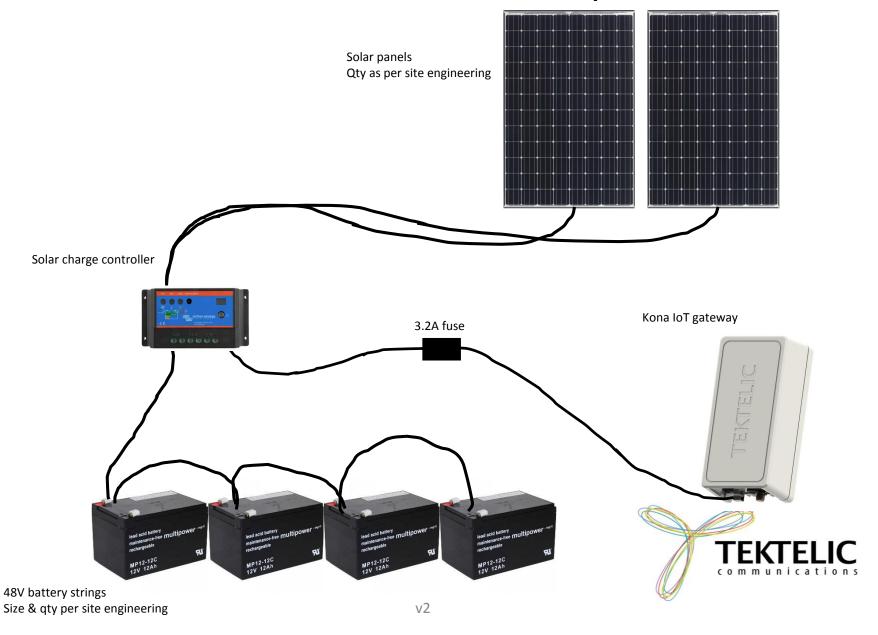
Kona Gateway Solar Powering Guide

Kona Gateway DC Power Specifications

Gateway	DC Power Input Specifications
Kona Mega	Operating voltage: 37 – 57 Vdc No damage voltage: +/-60 Vdc Shutdown threshold: 33 V typical, 31 V minimum Start-up threshold: 39 V typical, 42 V maximum Power consumption: 24 W typical, 40 W maximum Ground reference: Positive or negative
Kona Macro	Operating voltage: 37 – 57 Vdc No damage voltage: +/-60 Vdc Shutdown threshold: 32 V typical, 30 V minimum Start-up threshold: 36 V typical, 37 V maximum Power consumption: 15 W typical, 25 W maximum Ground reference: Positive or negative



Autonomous Solar System



Solar panels

- 48V system
 - Recommend two series 72 cell panels (2x24V)
 - Example part: Canadian Solar CS6U-325P

https://www.canadiansolar.com/solar-panels/superpower.html

Many others to choose from:

https://www.solarelectricsupply.com/solar-panels/72-cell-solar-panels





Charge Controller

- 48V system
 - Example part for low cost option:
 - Victron Energy BlueSolar PWM-Light Charge Controller 48V-20A

https://www.victronenergy.com/solar-charge-controllers/bluesolar-pwm





Battery

- 48V system
 - String of 4x 12V Lead Acid batteries recommended
 - Size battery according to site engineering, parallel strings for increased capacity
 - Example parts:
 - https://www.bluepacificsolar.com/batteries.html
 - https://victronenergy.volts.ca/battery/batteries/agm-deep-cycle-c20capacity.html
- Battery Enclosures
 - Size battery enclosure according to site engineering
 - Example parts:
 - https://www.bluepacificsolar.com/battery-enclosures.html