

HOW TO SIZE A SOLAR SOLUTION



The AccelTex Solutions Solar Solutions are a complete remote power solution designed for off-grid operation to power various electronics. These solar solutions are fully configured and provide multiple output power options. Custom configurations are available.

To properly size your solar solution, please answer the below system sizing questions and perform a solar site survey at the deployment location.



SYSTEM SIZING QUESTIONS

1. What is the voltage of the system?
 12V 24V
2. What are the power needs of your equipment?
 I need 802.3af power
 I need 802.3at power
 I need 12 V DC power
 I need 24 V DC power
 What is the total current draw of all of the equipment?
3. Where is the system being deployed?
 City State
4. How many hours per day will the equipment be in operation?
 Hours
5. Will you need to propagate RF through the enclosure (an antenna is mounted inside the enclosure)?
 Yes No I need an antenna mounted to the outside of the enclosure
6. What equipment/components are you using/mounting inside the enclosure?

Component #1

_____ Equipment PN/Description
 _____ Size _____ Weight _____ Mounting

Component #2

_____ Equipment PN/Description
 _____ Size _____ Weight _____ Mounting

Component #3

_____ Equipment PN/Description
 _____ Size _____ Weight _____ Mounting

Component #4

_____ Equipment PN/Description
 _____ Size _____ Weight _____ Mounting



PREFORMING A SOLAR SITE SURVEY



Performing a solar site survey at the deployment location is critical to properly designing an appropriate system to fit your needs. Please complete the below survey checklist while on site.



SITE SURVEY CHECKLIST

1. Can you mount the solar panel facing due South (in Northern Hemisphere) or due North (in the Southern Hemisphere)?
_____ Yes _____ No _____

2. Are there any sun obstructions at any time during the day (i.e., trees, fences or buildings)?
_____ Yes _____ No

3. Please describe the location and surroundings: _____

4. How will the system mount?

Enclosure Installation:

_____ Existing Pole at location _____ New Pole at location _____ Pole Diameter
_____ Wall _____ Wall Material
_____ Ground _____ Ground Material

Solar Panel Installation:

_____ Existing Pole at location _____ New Pole at location _____ Pole Diameter
_____ Wall _____ Wall Material

5. How far away will the enclosure be mounted from the solar panel?
_____ Feet