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 802.3at+ power
   _____ I need 802.3bt power
   _____ I need Cisco UPOE 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

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PERFORMING 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

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