

Support Bulletin-SB-25-10053

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Title: Utilizing Solar Panels to Maintain QuickDraw Battery

Product Line: Spray Tender

Model: QuickDraw 3000

Level: Public

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Revision Letter: A



Overview: A solar panel system can be used as an alternative to truck battery harnesses to reliably maintain the QuickDraw battery, ensuring continuous operation in the field.

Supporting Info:

- The QuickDraw controller and accessories draw approximately **1.6 Amps continuously**; a key start transfer pump (if used) draws **40+ Amps for 10 seconds per start** (about 0.8 Amp Hours/day if started 7 times).
- **Total daily load:** ~20 Amp Hours/day for 12 hours of operation.
- A standard car battery (40 Ah) can power the system for about **1.5 days without sunlight** (assuming 75% efficiency).
- To recharge the battery in one day, a solar panel system must provide enough energy to replace the daily usage plus losses.
- SurePoint Ag recommends a **100W solar panel**, a deep cycle marine battery (40 Ah), and a solar charging controller for continuous operation. If the QuickDraw controller is powered off between batches, a 50–80W panel may suffice but expect a 30–60 second boot-up delay each time.

Solution:

1. **Recommended Setup:**
 - 100W solar panel
 - Deep cycle marine battery (≥40 Ah)
 - Solar charging controller
2. **Optional:**
 - For intermittent use (controller off between batches): 50–80W solar panel
 - Note: Boot-up delay of 30–60 seconds when powering on.

Notes:

- Always use a solar charge controller to prevent battery overcharging and ensure system longevity.
- In some instances, a solar charger can cause ARAG carrier meter interference when a batch is ran.
 - If you experience erratic or no carrier flow readings while running a batch, it is recommended to turn off or disconnect the solar charger from the battery until the batch is complete.

For further details or technical support, contact SurePoint Ag Systems.