

Technical Datasheet - HelioDrive



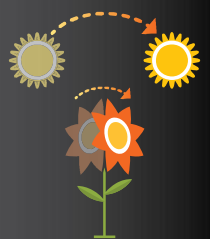
## HelioDrive Models and Capacities

| Model       | Torque Output | Total Panel Capacity to Track*   |
|-------------|---------------|--|
| <b>HD75</b> | 3000 ft-lbs   | <ul style="list-style-type: none"> <li>• 1200 panels in a ground mount</li> <li>• 14-20 panels as a top of pole mount</li> </ul> |
| <b>HD50</b> | 1100 ft-lbs   | <ul style="list-style-type: none"> <li>• 440 panels in a ground mount</li> <li>• 6-12 panels as a top of pole mount</li> </ul>   |
| <b>HD25</b> | 325 ft-lbs    | <ul style="list-style-type: none"> <li>• 120 panels in a ground mount</li> <li>• 2-4 panels as a top of pole mount</li> </ul>    |

\*Total Panel Capacity to Track is dependent on specific racking configurations and final system design.

### HelioDrive Requires:

- ▶ No Electrical Power
- ▶ No Motors or Wiring
- ▶ No Computers/Software
- ▶ No Costly Maintenance



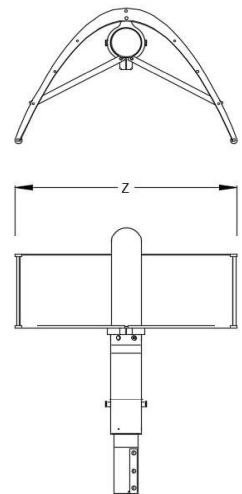
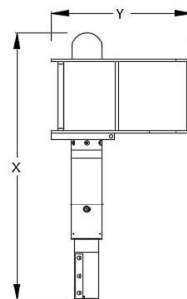
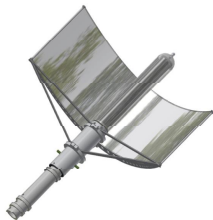
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## HelioDrive Specifications

|                                |  |
|--------------------------------|--|
| <b>Drive System Force</b>      | Expanding phase change material - hydraulic level forces                         |
| <b>Tracking Control System</b> | Optical and mechanical based - no software required                              |
| <b>Gear Reduction/Gear box</b> | None - "one to one" drive ratio  |
| <b>Power Consumption</b>       | None, fully autonomous and renewably-powered                                     |
| <b>Lightning Protection</b>    | Not needed   |
| <b>Operating Temperature</b>   | -20 deg F to 130 deg F - phase change material based on location                 |
| <b>Racking Applications</b>    | Horizontal ground mounts/top of pole/custom rack system                          |
| <b>Tracking Range</b>          | 120 degrees total possible - 45 deg east to 75 deg west                          |
| <b>Return Mode</b>             | Gravity/counter weight based   |
| <b>Total Moving Parts</b>      | One  |
| <b>Maintenance</b>             | Grease fitting serviced annually; concentrator cleaned at module glass intervals |
| <b>Safety</b>                  | Rupture valve present for hazardous pressures or movement restrictions           |
| <b>Shipped Configuration</b>   | Shipped as three sub-assemblies that can be assembled with hand tools            |
| <b>Warrantee</b>               | 10 years   |

## Model Weights and Measurements

|              | X (in) | Y (in) | Z (in) | Weight (lbs) |
|--------------|--------|--------|--------|--------------|
| <b>HD 25</b> | 29     | 14.8   | 23.25  | 60           |
| <b>HD 50</b> | 39     | 20.85  | 29     | 115          |
| <b>HD 75</b> | 62     | 30.75  | 45     | 170          |



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