

Clenergy EzTracker D1 Solar Tracker



Innovative double drive design

With totally new and innovative double drive design, the drive forces and outside loads apply on Torque Beam with more reasonable distribution method, adding with self-calibrate system contributes to higher stability.

Irregular site adaptability

EzTracker D1 is so flexible that it is able to be built in irregular site. While linked row systems need to pay attention to both north-south and east-west slopes, EzTracker D1 offers complete freedom in east-west slope tolerance.

Multi configuration available

EzTracker D1 is compatible with different layout (1P, 2P or 3L) to offer most cost-effective one to specific project. It also offers different options in ways of power supplying, self-powered or grid-powered.

No damper demand

With robust structure and innovative drive mode, EzTracker D1 doesn't need damper to buff the sudden outside load, leading to fewer possible failure point and subsequent maintenance fee.

Other Benefits

- High power density
- No maintenance bearings
- Compatible with most remote control system
- Offer self-developed monitor software to follow tracker status

Functions

- Astronomical algorithm + closed loop control
- Backtracking
- Wire or Wireless
- Self-powered or grid-powered
- Night-time stow
- Wind stow
- Motor overheat protection
- Motor overload protection
- Driving abnormal self-diagnose

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Application



Specification

Structural and Mechanical Features	
Tracking Type	Distributed single axis
kWp per Drive Unit	27kWp (estimated with 300Wp module)
Tracking Range of Motion(E-W)	$\pm 45^\circ$ (standard), $\pm 50^\circ$ (customized)
Tracking Accuracy	$\pm 2^\circ$
Maximum Row Size	90 Modules(1x90, 2x45, 3x30)
Drive Type	Linear Drive
Supported Modules	Framed and frameless modules
Structural Materials	Hot dip galvanized steel/ Aluminum components
Foundation	Steel pile, PHC pile, concrete foundation
Electronic Controller Features	
Motor Type	24V DC Motor
Solar Tracking Method	Astronomical algorithm + closed loop control
Control system	SCM
Data Feed	Modbus over RS485
Signal transmission	Wire or wireless (Zigbee)
General	
Slope Tolerance	North-south 10%, East-west no limits
Wind Load	According to local condition
Operating Temperature	-30°C to $+60^\circ\text{C}$
Codes and Standards	GBT29320-2012, UL3703/2703