



SuperTrack

Smart Tracking Algorithm & Smart Backtracking Algorithm Increase energy generation by as much as 8%



Active closed-loop tracking control

32-bit high-performance MCU



Multi-function modes improve reliability

Strong wind protection mode Manual snow removal mode



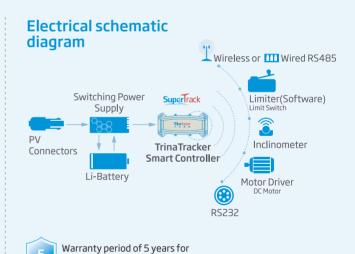
Multiple power supply

String-powered Self-powered AC-powered



Diversified & Stable communication modes

Wireless communication: LoRa/ZigBee Wired communication: RS485 (optional)





TrinaTracker electrical components.







Smart Tracker Controller Unit TECHNICAL SPECIFICATIONS

| Input | |
|--------------------------|---|
| String-powered Supply | 300-1000V DC |
| Self-powered Supply | 32-55V DC |
| AC-powered Supply | 110V AC/220V AC |
| Output | |
| Working Voltage | DC 24V |
| Rated Output Current | 6.0A |
| Max. Output Current | 10.0A |
| Battery | |
| Battery Type | Lithium-ion Battery |
| Battery Capacity | 3.0Ah (AC-powered, String-powered Supply) 6.0Ah (Self-powered Supply) |
| Power Consumption | |
| Daily Energy Consumption | 0.04kWh/day |

| ∘ & Smart Control | |
|-----------------------------------|-----------------------------|
| Tracking Algorithm | Superirack |
| Snow Mode | Yes |
| Hail Pattern | Yes (optional) |
| Wind Protection | Multi-Level Wind Protection |
| Reset Protection at Night Parking | Yes |
| Rotation Limit Protection | Yes |
| Motor Overcurrent Protection | Yes |
| Manual/Automatic Tracking Mode | Yes |
| Emergency Button | Yes |

| ■ General Data | |
|-------------------------|---|
| Certification | IEC62109/IEC62817/UL3703 |
| Tracking Angle | up to ±60° |
| Tracking Accuracy | <±1° |
| Wireless Communication | LoRa/ZigBee |
| Wired Communication | RS485 + Ethernet |
| Protection Level | IP66 |
| Weight | <5kg |
| Dimensions | 426* 202* 118mm (L*W*H) |
| Environment Temperature | -30°C~60°C (String-powered/Self-powered) |
| | -40°C~60°C (AC-powered optional) ⁽¹⁾ |
| Class II | Yes |
| Max Altitude | 4500m |

 $^{{\}tt *1\,Standard\,configuration.\,Different\,conditions\,under\,request,\,please\,consult\,TrinaTracker.}$





