



TrinaTracker Smart Tracker Controller

Higher system reliability



Low motor failure rate

Overcurrent protection reduces excessive motor consumption

Lower motor power consumption



Multiple power supply Stable wireless communication



Higher synchronization

Master/slave controller built-in inclination sensor



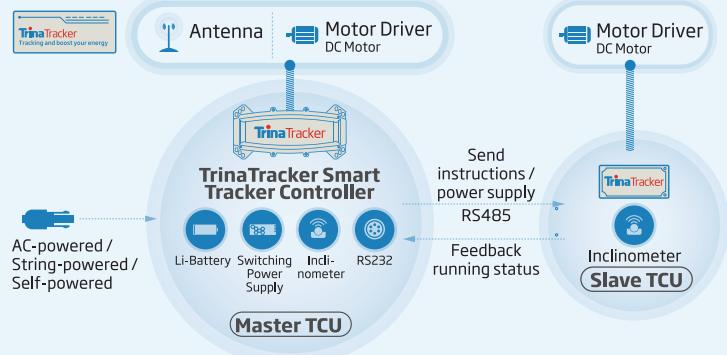
Multi-function modes improve reliability

Multistage wind speed protection mode

Load current classification determination

Heavy snow protection mode

Electrical schematic diagram



Warranty period of 5 years for TrinaTracker electrical components.



Smart Tracker Controller Unit

TECHNICAL SPECIFICATIONS

Characteristic Parameters-Master TCU

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

Characteristic Parameters-Slave TCU

Input	
Power from master TCU	DC 24V
Power Consumption	
Daily Energy Consumption	0.04kWh/day

Smart Control

Tracking Algorithm	SuperTrack™
Extreme weather protection mode	Yes
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 $\pm 60^\circ$	
Tracking Accuracy	$< \pm 1^\circ$	
Wireless Communication	LoRa/ZigBee	
Protection Level	IP66	
Weight	Master TCU	<5kg
	Slave TCU	<2kg
Dimensions	Master TCU	426*202*118mm (L*W*H)
	Slave TCU	187*120*70mm (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	

*1 Standard configuration. Different conditions under request, please consult TrinaTracker.

