



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



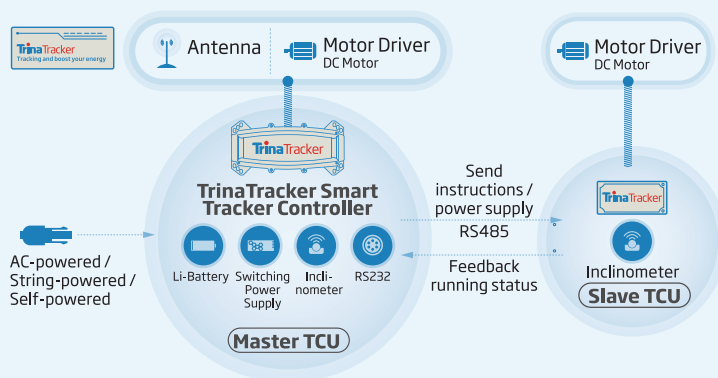
Multi-function modes improve reliability

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
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Characteristic Parameters-Slave TCU

Input

Power from master TCU	DC 24V
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Power Consumption

Daily Energy Consumption	0.04kWh/day
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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 ±60°
Tracking Accuracy		< ±1°
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℃~60℃ (String-powered/Self-powered) -40℃~60℃ (AC-powered optional) ⁽¹⁾
Class II		Yes
Max Altitude		4500m

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



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CAUTION: READ SAFETY AND INSTALLATION INSTRUCTIONS BEFORE USING THE PRODUCT.
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TrinaTracker