

Trinatracker Smart Controller

TCU

Track and Boost Your Energy



SuperTrack

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



Multi-function modes improve reliability

Strong wind protection mode
Automatic snow removal mode



Active closed-loop tracking control

32-bit high-performance MCU



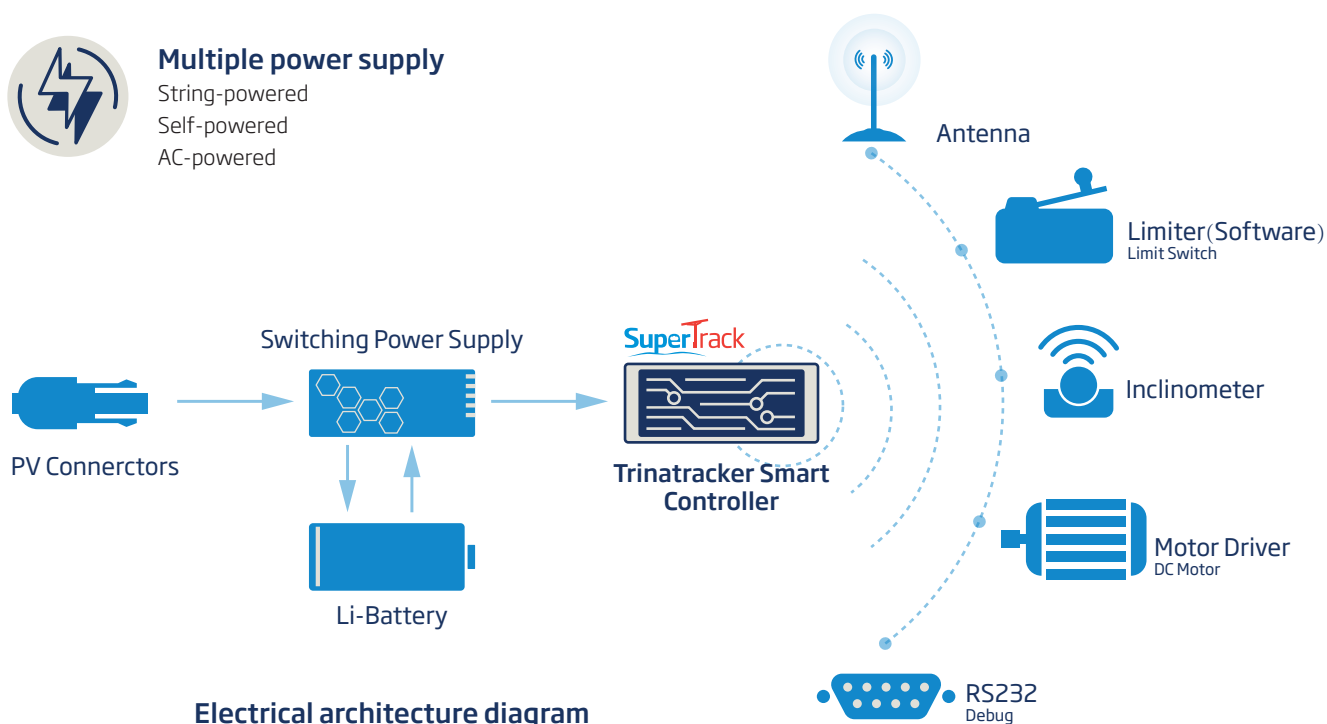
Stable wireless communication

LoRa/ZigBee-wireless communication technology



Multiple power supply

String-powered
Self-powered
AC-powered



Trina Tracker Control Unit

Controller Electrical Specifications

TCU

Characteristic Parameters

Input

String-powered Supply	300-1000V DC 300-1500V DC (Settable)
Self-powered Supply	Input < 55V
AC-powered Supply	90-132V AC / 176-264V AC

Output

Working Voltage	DC 24V
Rated Output Current	6A
Max. Output Current	10A

Battery

Battery Type	Lithium-ion Battery
Battery Capacity (String-powered supply)	3350mAh
Battery Capacity (Self-powered supply)	6700mAh
Battery Capacity (AC-powered supply)	3350mAh

Power Consumption

Daily Energy Consumption	0.02 kWh/Day
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Smart Controlling

Tracking Algorithm	SuperTrack
Snow Mode	Yes
Hail Pattern	Yes (Settable)
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 $\pm 60^\circ$
Tracking Accuracy	$< \pm 1^\circ$
Wireless Communication	LoRa/ZigBee
Protection Level	IP65
Weight	< 8kg
Dimensions	375*126*165mm (L*W*H)
Environment Temperature	-30°C ~ 60°C ⁽¹⁾
Altitude	< 4000m

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