

Track.bloxx

200 Series Data Sheet

Gantner | intelligence
instruments for energy



Single axis tracker
motor controller unit

Gantner.trackIQ - IQ-driven PV tracker control

With Gantner.trackIQ, you enter the next generation of intelligent PV tracker control.

Our system combines advanced algorithms, AI-driven optimization, and German engineering excellence – delivering maximum energy yield, uncompromising security, and complete data sovereignty.

Track.bloxx 200 series key features:

- Supports 24 VDC motors up to 200 W
- Powered by 1500 VDC string, AC, or self-powered (pony panel)
- Battery option for operation from $-20\text{ }^{\circ}\text{C}$ to $+60\text{ }^{\circ}\text{C}$
- Software-defined functionality (SDF) via secure cloud connection
- Customized tracking algorithms – “bring your own tracking algorithm”
- Firmware updates (OTA) fully compliant with NIS2 and CRA requirements
- Worldwide communication options: 2.4 GHz wireless mesh or industrial RS485
- 100% customizable hardware and software

Document date: 2026/02/11

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General

Tracking range	-180 ° to +180 °
Output	24 VDC / 8.3 A (12 A peak for 30 s)
Operation temperature	-30 °C to +60 °C without battery -20 °C to +60 °C with battery
Operation altitude	max. 5000 m

Safety

Safety mode positions	wind, hail and flood
Safety mode in case of communication timeout	
Emergency stop button	Optional: easily accessible extension for agri-pv plants
Overcurrent stop	

Sensors

Integrated inclination sensor (precision 0.5 °)	
Integrated motor current sensor (precision 1 %)	
Optional: input for external 2nd angle sensor	

Signalization

8x Status LEDs (Wireless states, operation states, battery states, error indication)	
1x LED signal ring for high-visibility status indication	

Wireless

Antenna	Integrated antenna 2 dBi
2.4 GHz wireless module	
Multifunctional proprietary mesh protocol (bi-directional, multi-hop, self-healing)	

Configurations interface

Bluetooth Low Energy - BLE	
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Power Supply

Type	AC powered, 180 - 264 VAC DC solar string powered, up to 1500 VDC self-powered (pony panel)
Input	220-230 VAC 300-1500 VDC 35-65 V - 110 W
Input frequency	50-60 Hz AC
Optional: Integrated battery	7.2 Ah LiFePO4 battery for backup power
Optional: Battery heating	Integrated for battery charging below 0 °C

Enclosure

UV and weather resistant for outdoor use	
Material	PBT-ASA-PET with integrated pressure compensation element and UL94 V0
Ingress protection class	EN 60529 IP65
Mounting tab for mounting to torque tube	
Dimensions	H222 W315 D174 mm
Net weight	3.05 kg without battery 4,65 kg with battery

Connections

DC motor connector Weipu 3-Pole	
Optional: Integrated MC4-EV02 connectors for DC power supply up to 1500 V	
Optional: 2nd DC motor connector 2 pole	
Optional: External RS485 interface for sensor or communication	

Data sheet is preliminary and subject to change without notice Document date: 2026/02/11

