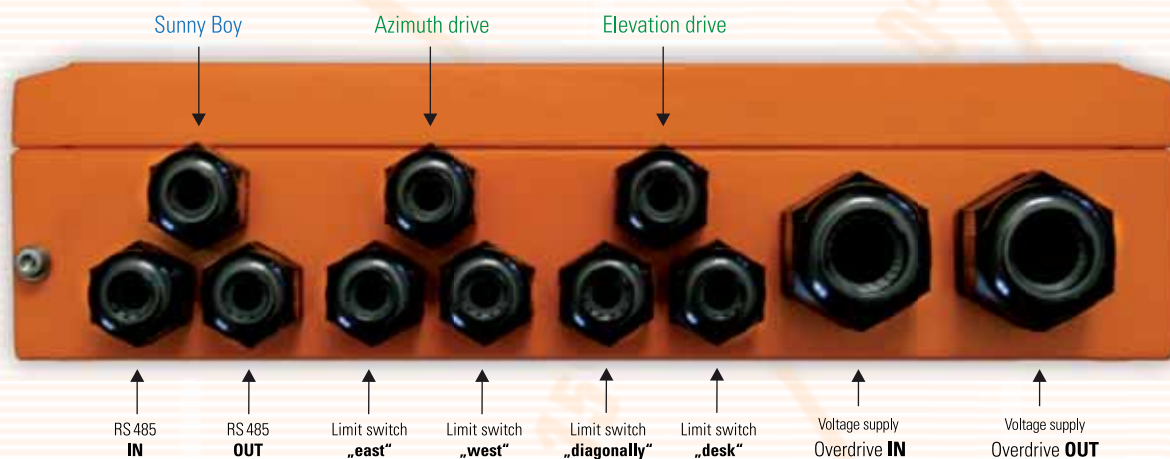
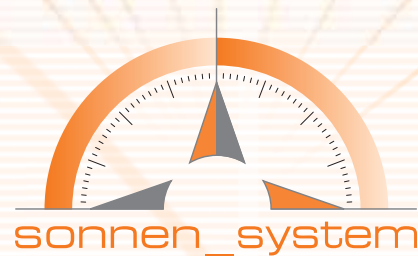


Connection SolTrk

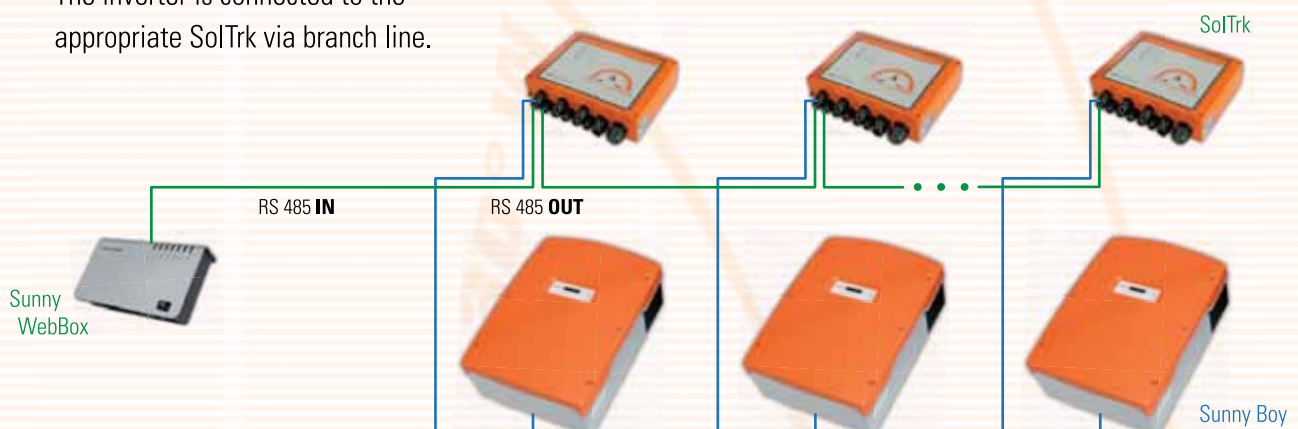


The **entry points** of all necessary supply, control and communication cables are **on the bottom side** of the SolTrk. The enterings are designed as **PG-screwings** each and marked according to their configuration.



Cabling Communication

All devices in one construction are connected to the Sunny-Webbox by a RS-485 communication-bus. Every SolTrk is equipped with a COM-IN and COM-OUT plug-in to integrate them into the bus. The inverter is connected to the appropriate SolTrk via branch line.

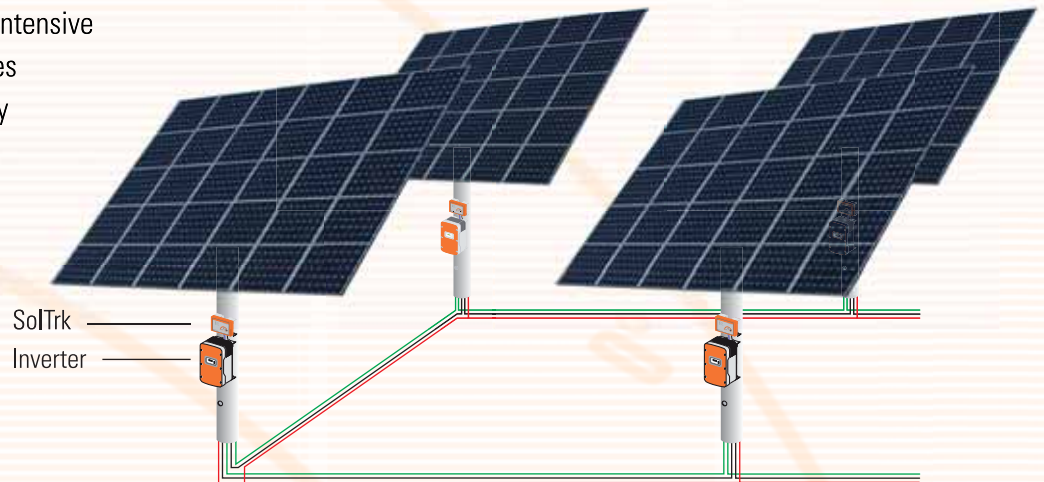


Cabling sonnen_systems

Each **sonnen_system** is equipped with a **separate control unit**. One big advantage is that each system can be accessed and parametrized individually. Thus, up to **25 sonnen_systems** can be summarized in a group.

The elaborate and cost-intensive laying of control pipelines becomes redundant, only a supply-, feed-in- and communication cable is needed for the operation.

Communication
Power SolTrk 24V DC
Feeding inverter WR 230V



Placing sonnen_systems

It is important to **reserve enough space** for each tracking system in order **to prevent the sonnen_systems from shadowing** each other or to minimize the shadowing.

The crucial factors are the dimensions of the module surface and the **radiation angle of the sunlight**. As these factors depend on type and location of the system, a difference must be made between floor space requirements for **sonnen_systems** as follows:

AREA REQUIREMENTS **sonnen_system** ON EVEN SURFACE

Degree of latitude	3_40 (m ²)	Arrangement 0-W x N-S	3_60 (m ²)	Arrangement 0-W x N-S
30.	140 16x9m	Rectangle	200 19x11m	Rectangle
35.	170 16x11m	Rectangle	240 19x15m	Rectangle
40.	200 16x13m	Rectangle	280 19x16m	Rectangle
45.	200 16x13m	Lozenge	300 19x17m	Lozenge
50.	220 17x14m	Lozenge	320 20x17m	Lozenge
55.	300 18x18m	arbitrary	360 19x19m	arbitrary