Data sheet
sonnen_system
3_30 / 3_40 / 3_60

sonnen_systeme
Projektgesellschaft mbH

Performance Overview

www.sonnen-systeme.de

- Biaxial tracking system for photovoltaic installations
- Local astronomical control
- Additional yield up to 40% compared to stationary plants
- Comprehensive safety concept
- Central monitoring via Internet
- Track back process in order to prevent the tracking system from shadowing each other
- Permits installation to buildings
- Guarantee 2 years
- Suitable for every type of framed modules

	sonnen_system 3_30	sonnen_system 3_40	sonnen_system 3_60
Dimensions			
Size of module surface	approx. 19 – 35 m^2	approx. 36 – 45 m^2	approx. 46 – 60 m^2
Size of supporting structure without profile rails (width x height)	5 m x 3,8 / 5 m	7 m x 5 m	7 m x 6,4 m
Maximum installation height (upper edge of module surface above ground niveau)	25 m	25 m	25 m
Weight without mast, profile rails and modules	approx. 525 kg	approx. 620 kg	approx. 670 kg
Components			
Steel construction			hot-dip galvanised acc. to DIN EN 1461
Azimuth			electromechanical slew drive
Elevation			electromechanical lifting spindle
Planetary gear		azimuth: 400 : 1	elevation: 225 : 1
Safety			
Monitoring		monitoring system for the entire plant via SMA Sunny WebBox	
Wind alert system actuates at wind speed	≥ 13m/s	≥ 13m/s	≥ 13m/s
Lightning protection class (exterior lightning protection)	one	one	one
Type of protection	IP 65	IP 65	IP 65
Voltage monitor actuates at	≤ 24V / DC	≤ 24V / DC	≤ 24V / DC
Uninterruptible power supply		44 / 55 Ah depending on the quantity of sonnen_systeme	
Performance			
Capacity of PV-generator (depending on module type)	2,7 – 4,9 kWp	5,0 – 6,5 kWp	6,6 – 10 kWp
Angular range		azimuth 270°	elevation 70°
Angular accuracy			by 0,5°
Operating voltage	24 V / DC	24 V / DC	24 V / DC
Nominal power	max. 110 W	max. 110 W	max. 110 W

SOLTRK

- Local control developed in cooperation with SMA for the sonnen_system
- Astronomical control permanently calculating the current position of the sun
- Area of operation: between 25° and 65° N/S, as well as between the longitudes 180° E and 180° W
- Administration and remote operation via Sunny WebBox
- Interface for communication with Sunny WebBox and inverter via RS485

SMA SUNNY WEBBOX

- Collection of the energy yield
- Parameterisation and remote control of SOLTRK
- Permits data management by 25 sonnen_systeme
- Uninterrupted monitoring of the system data
- Integrated web server for online access to the current data by PC or Sunny Portal
- Diagnostics and configuration of the system by any type of PC
- Data logging on SD card

SMA SUNNY PORTAL

- Free of charge data filing
- Visualisation of the measured values from SOLTRK
- Status- and fault reports per e-mail to PC, mobile phone and PDA
- Visualisation of the measured values of the system
- Remote monitoring

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