



FOTTON Systemy Solarne CENTROPOL SJ

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Podstawowe dane techniczne:

Structure material	Hot dipped galvanized steel
Maximum module surface area	85 m ² (915 ft ²)
Maximum photovoltaic power	12 kWp (as a function of module power and number of modules)
Tracking technology	Programmable Logic Controller (PLC) astronomical program
Wind protection system	Programmable; automatic horizontal positioning at wind speeds greater than 70 km/h (43 mil/h)
Tracker height	3,880 mm (152.75 inch), from the ground (horizontal position)
Tracker weight	3000 kg (6600 lb), without modules and foundation
Foundation	7.5 m ³ (9.8 yd ³) reinforced concrete (no excavation needed)
Tracking Axes	2 axes: azimuth and vertical
Angles of rotation	Azimuth: -120° to 120° Vertical: 0° to 60°
Azimuth rotation	Cogged crown wheel, activated by PLC and driven by electric motor and planetary gear reducer
Vertical rotation	Linear actuator activated by PLC and motor
Power supply to motors	380 to 480 V three phase, 50-60 Hz, depending on location (U.S., Europe, etc.)
Power usage of motors	100 kWh/year
Automation	Independent PLC on each tracker with possible interconnection and remote control (optional)
Bearing and turn regulation	Motorized bearing for azimuth tracking activated by planetary gear reducer
Anti-theft system	Alarm and message by GSM upon module disconnection (optional)
Monitoring	On site or remote monitoring on power output, tracking status (optional) and tracking control (optional)
Electrical cabinets for PLC and electrical security	Metallic, weather tight, fully wired Surge protection for AC
Inverters	Very flexible inverter configurations, ranging from several per tracker to large centralized inverters
Wind load	Maximum rated wind speed is 175 km/h (110 mph)
Operating temperature range	-25 to 55 °C (-13 to 131 °F)

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