



Description:

Solar panels of photovoltaic (PV) systems are more and more often combined with a solar tracking system. Depending on the tracking system the output of each panel can be increased between 20 to 35%.

However, national feed-in tariffs vary from country to country and they all have the same tendency: down. Therefore most PV solar companies look for an inexpensive tracking system which doesn't require PLC systems for positioning. There is also a noticeable trend towards smaller panels to reduce the high forces created by high wind speeds.

The MS12 PV drives a number of small panels through one central shaft. For stand-alone installations the on-board controller uses pre-set, time-dependent position data. For large solar parks the individual time-positioning will be replaced by central PLC-positioning based on astronomical data. The position data for each drive will be sent by CANopen communication.

Technical data:

Type	Compacta MS12 PV
Max. torque	140Nm Max. for Compacta product family: 1600Nm
Max. speed	5 rpm
Gear ratio	675 : 1
Gear reducer	Planetary-spur-worm reducer
Motor	24V DC PM motor
Controller	24V DC motor controller integrated
Encoder	Absolute encoder with 4096 pulses per revolution integrated
Communication	CANopen integrated
Operation modes	1. Timer controlled index operation (stand-alone) 2. Central PLC with astronomical position data (solar parks)
IP-rating	IP54, IP65
Certificates	CE, NRTL, BG