



**YOUR PARTNER
IN ENERGY**

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SINGLE ROW SUNRIDER®



TECHNICAL DATASHEET SINGLE ROW SUNRIDER[®]



LAND ADAPTABILITY



EFFECTIVE STORM
PROTECTION



WIND TUNNEL TEST



IMPROVED
PRODUCTION



EASY ASSEMBLY
NO SPECIAL TOOL
REQUIRED



LONG-TERM WARRANTIES



ADAPTED TO
CUSTOMER NEEDS

BASIC SPECS

TRACKING SYSTEM: **Horizontal single axis E-W** tracker with **SINGLE ROW** system

CONFIGURATION: **1 PORTRAIT / 3 LANDSCAPE**

TRACKING RANGE: **±60°**

DIMENSIONS: **105m Maximum tube length / 90 modules (1 to 3 strings)**

DRIVE SYSTEM: **24V DC Motor**

DAMPING SYSTEM: **2 Hydraulic shock absorbers** per tracker

POWER SUPPLY: **Self powered / Grid power / String**

MODULE: **ALL market modules supported**

FOUNDATIONS: **Ramming / Pre-drilling / Concrete foundations / Ground screw**

MATERIALS

STRUCTURE / PROFILES: **S355/S275+HDG100/S350GD+MAGNELIS ZM310**
SS Grade 340+HDG100/A572+MAGNELIS ZM310

FIXATIONS: **GR8.8 + TZN/SS A2**

A193B7/A354BC +304/18/8 stainless steel

CALCULATION CRITERIA

MAX WIND RESISTANCE: **72 m/s**

MAX SNOW RESISTANCE: **2.8 KN/m²**

WIND TESTS: **RWDI/CPP WIND TUNNEL**

ENVIRONMENTAL CORROSION: **C1-C5 (C3 as standard)**

SLOPE NORTH-SOUTH: **16%**

SLOPE EAST-WEST: **Unlimited**

GROUND CLEARANCE: **0.50 m (55°) as standard**

WARRANTY

STRUCTURE: **Up to 10 years**

CORROSION: **Up to 30 years**

BATTERY & CONTROL: **Up to 5 years**

ENGINE & SLEW DRIVE: **Up to 5 years**

DAMPER: **Up to 5 years**

REGULATIONS

EUROCODES 1-3-4

ASTM/ASME / SAE

ASCE 7-10

ISO 9001-14001

ISO 1461/ASTM 123

CONTROL SYSTEM

COMMUNICATION ARCHITECTURE: **Wireless (Zigbee technology) or WIRED (RS485)**

PRODUCTION IMPROVEMENT: **3D backtracking/ overcast customized algorithm**

ACURACY: **Precise tilt measurement built in 3 axis acceleromete (<0.05°)**

AVAILABILITY: **Wide operating temperature range (-40 to 60°C)**

WEATHER PROTECTION: **Storm stow protection/Untrasonic anemometer**

CONNECTIVITY: **Smartphone APP/Bluetooth** for easy O&M local operation