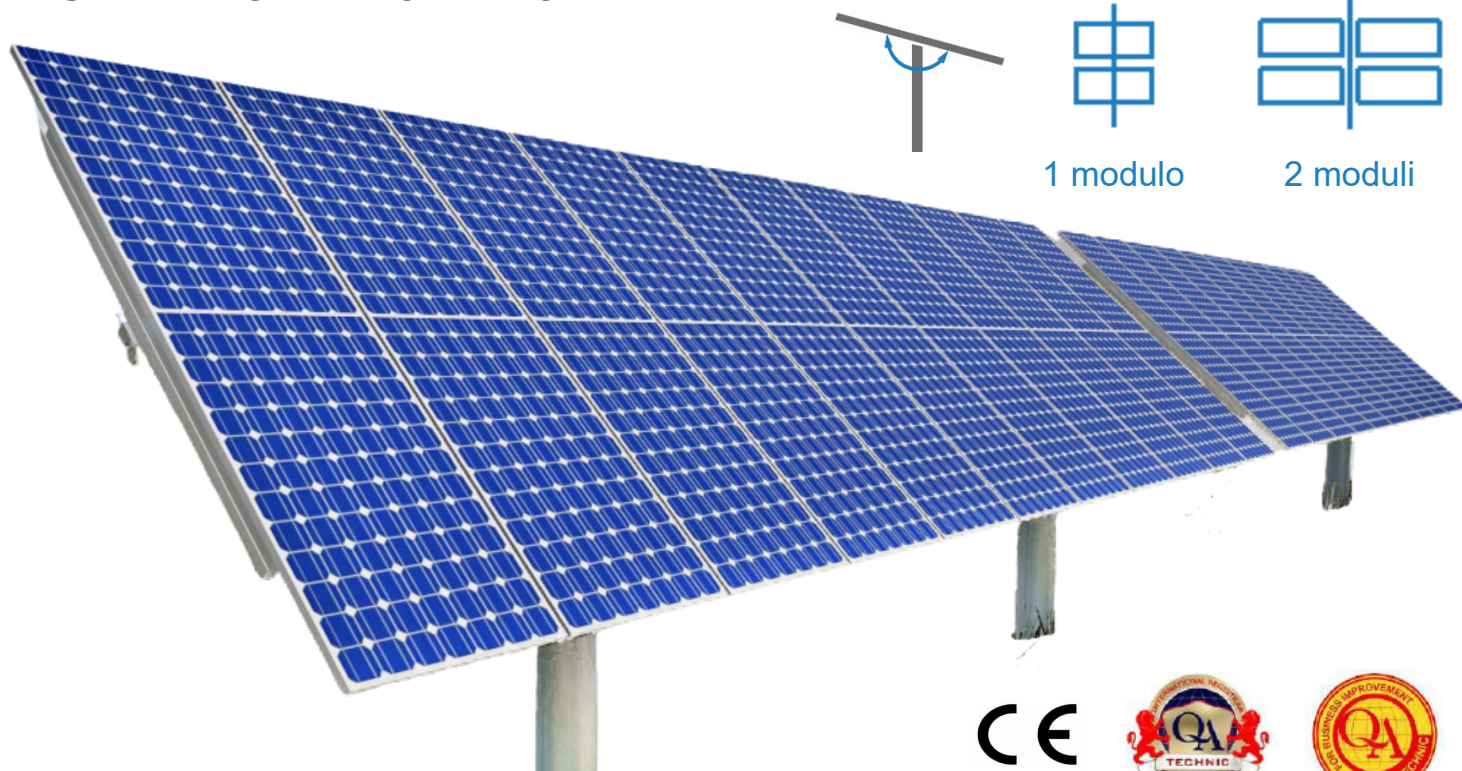
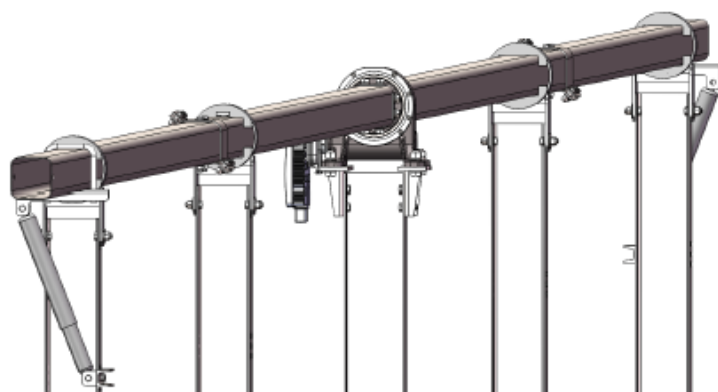


STEEL GROUND MOUNTING SYSTEM

STP- TRACKER ROTATIVO

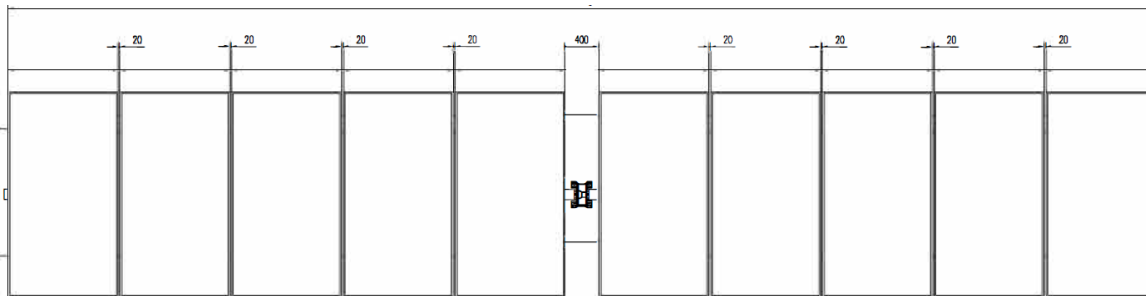
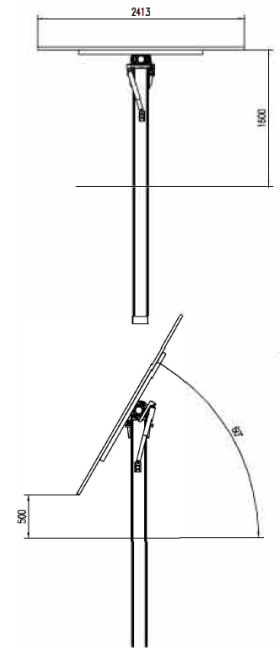
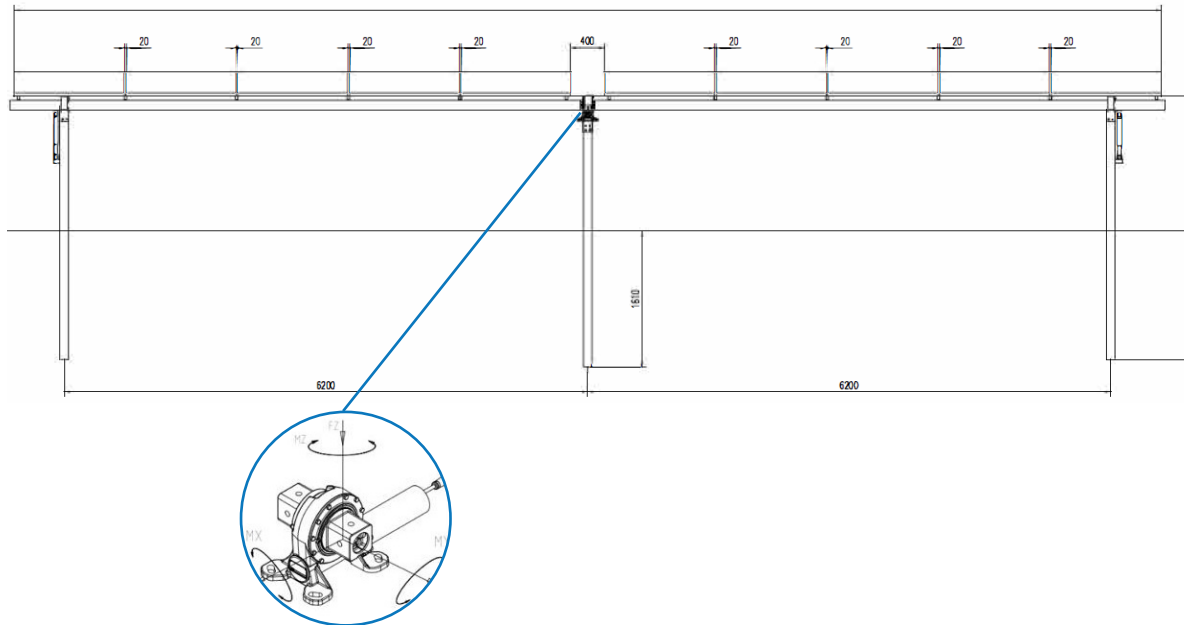


La struttura tracker per moduli fotovoltaici utilizza acciaio zincato a caldo come materia prima per la struttura principale, rendendo il sistema altamente durevole, ad alta resistenza e stabile. Il sistema di inseguimento solare piatto monoasse STP ha un asse che traccia l'angolo azimutale del sole. Ogni set monta dai 10 ai 60 moduli, con un guadagno di produzione del 15-30% rispetto ai sistemi a inclinazione fissa sullo stesso array di dimensioni.



Technical Parameter

Installazione	Terreno
Modalità di controllo	Tempo + GPS
Precisione media del tracciamento	0,1° - 2° (regolabile)
Motore ad ingranaggi	24V/1,5A
Coppia di uscita	5000 N • M
Monitoraggio del consumo energetico	5 kWh/anno/set
Campo di tracciamento dell'angolo azimutale	$\pm 45^\circ - \pm 55^\circ$
Ritorno al monitoraggio	Si
Massima resistenza al vento in orizzontale	40 m/s
Massima resistenza al vento in funzione	24 m/s
Materiale	Acciaio zincato a caldo $\geq 65 \mu\text{m}$
Garanzia del sistema	3 anni
Temperatura di lavoro	- 40°C - + 80°C



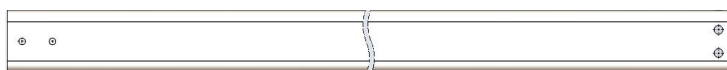
COMPONENTI STRUTTURALI PRINCIPALI



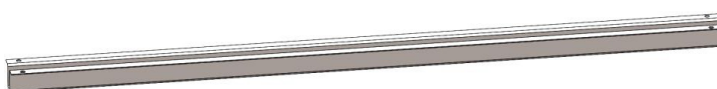
Driving vertical pole
H: 160 • 100 • 3 • 4 mm
Lunghezza: 3352 mm
HD galvanized steel



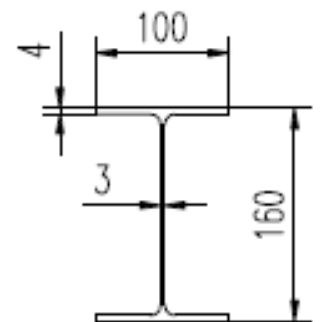
Supporting pole
H: 160 • 100 • 3 • 4 mm
Lunghezza: 3450 mm
HD galvanized steel



Center beam
120 • 120 • 2,3 • 4 mm
Lunghezza: in base al progetto
Superdyma



Purlin with subplate
60 • 32 • 80 • 1450 mm
Lunghezza: in base al progetto
Superdyma



TRACKER ENGINE

Slewing Drive Performance Parameter

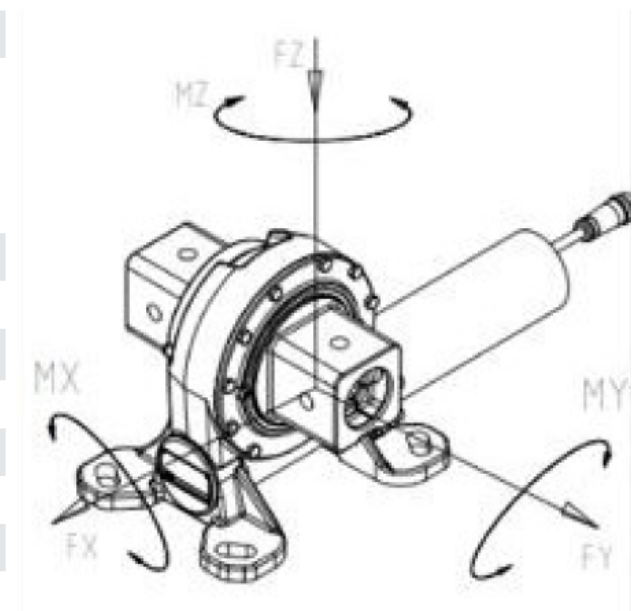
Slowing drive ratio	60
Efficiency	38%
Working temperature range	- 40°C to +80°C
Ingress protection/IP	IP65
Tracking precision	<0,2°
Corrosion Category	C3
Holding torque-MY	20 kN•m
Broken torque-MY	26 kN•m
Tilting moment torque-MX	6 kN•m
Static axial rating-FY	30 kN
Dynamic axial rating-FY	29 kN
Static axial rating-FX	40 kN
Dynamic axial rating-FX	30 kN

Reducer Motor Parameters

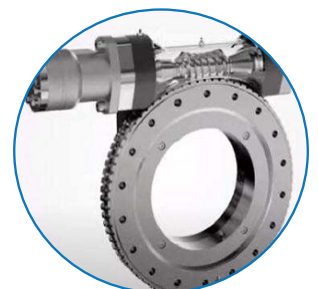
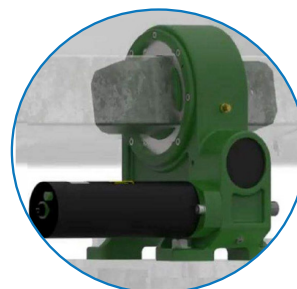
Type code	24.15.180
Rated speed	1,5 rpm
Rated torque	180 N•m
Peak torque	320 N•m
Rated voltage	230 Volt
Rated current	<3,8 A
Working temperature range	- 40°C to +80°C
Ingress protection/IP	IP65

Motorized Drive Output Parameters

Nominal torque (continuous operations, most operating conditions)	3500 N•m	Current	<3,1 A
Max torque (continuous operation for 10 mins. It should not exceed 5% of the total life)	5000 N•m	Current	<4.5 A
Output rated speed	0,025 rpm	Motor speed	1,5 rpm



DETTAGLI

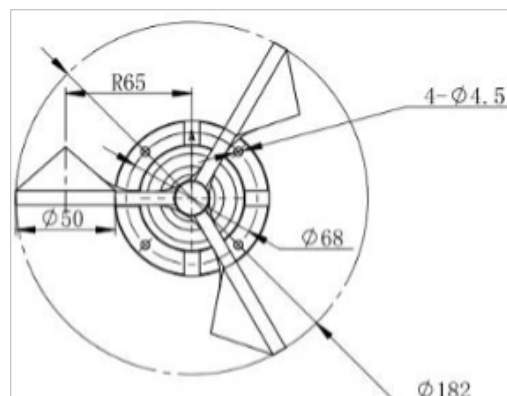
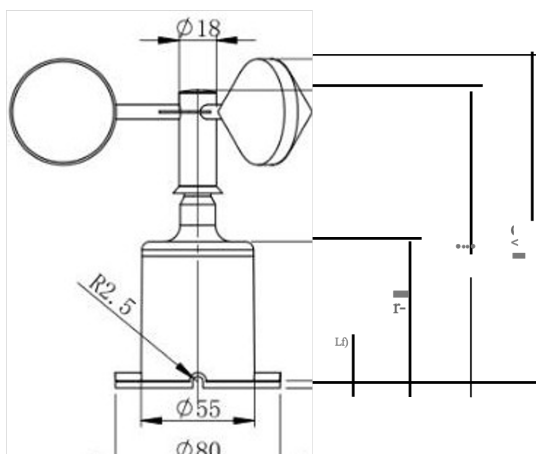


WIND SENSOR

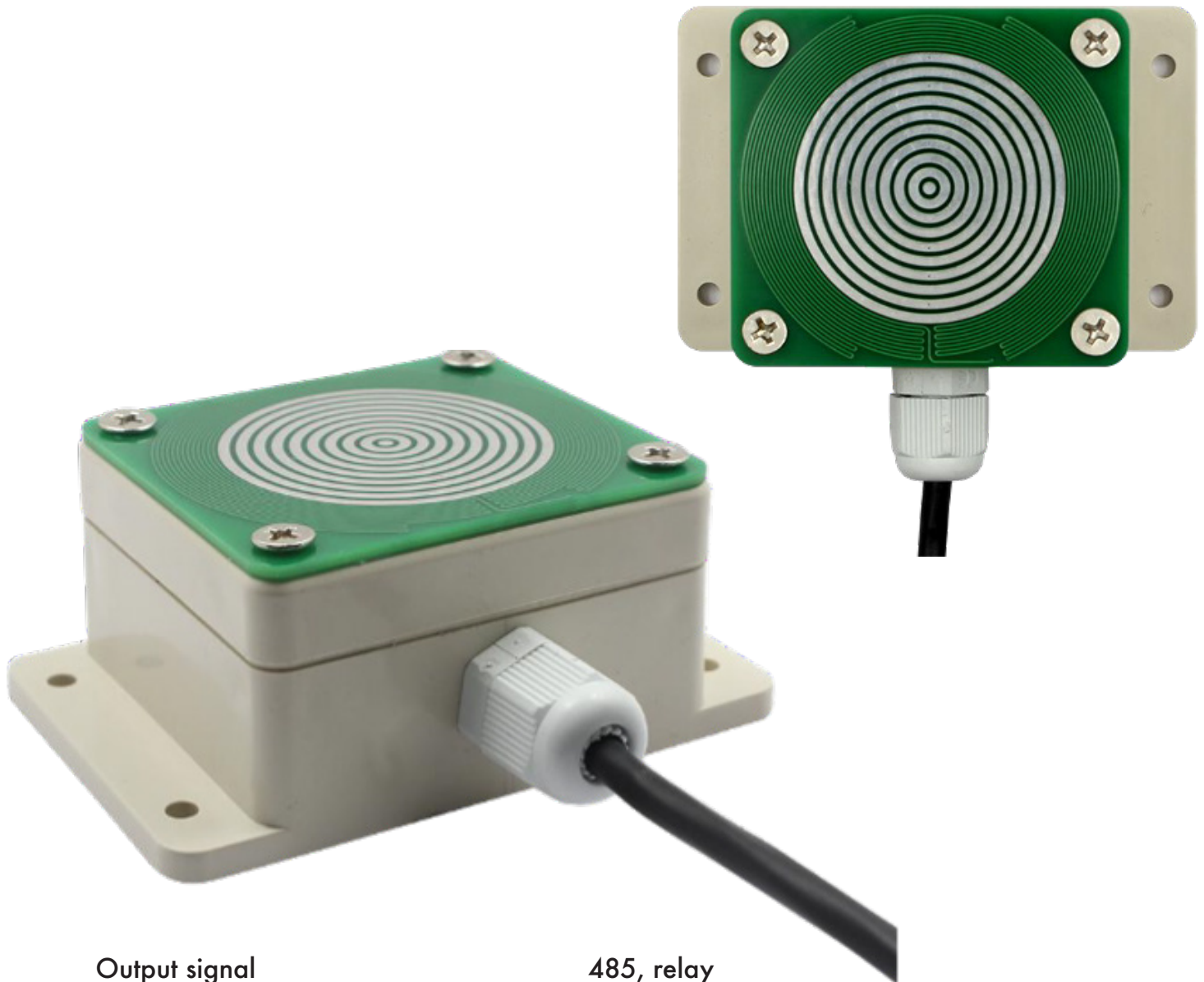


TECHNICAL DATA

Measuring range	0 – 60m/s
Measurement accuracy	$\pm(0.2+0.03V)$ m/s (V is the wind speed)
Power supply	10 – 30V D/C
Power consumption	$\leq 0.3W$
Operating temperature of transmitter circuit	- 20°C to +60°C; 0%RH to 80%RH
Communication interface	485 Communication (Modbus) Protocol Baud rates: 2400, 4800 (default), 9600 Data bit length: 8 bits Parity check method: None Stop bit length: 1 bit Default ModBus communication address: 1 Support Function Code: 03/04
Resolution	0.1m/s
Start Wind Speed	≤ 0.2 m/s
Dynamic Response Time	≤ 0.5 s



RAIN+SNOW SENSOR



Output signal	485, relay
Response time	≤0.5S
Power supply	10 – 30V D/C
Working power	0.4W
Storage environment	- 40°C to +80°C
Maximum heating temperature	40°C
Power during heating	2.4W
Heating start environment temperature	<15°C
Default Modbus Address	01
Support function code	03, 06
Output relay with load capacity	250VAC 1A/30VDC 1A
Protection grade	IP68

SOLAR RADIATION SENSOR



Output signal	485, standard Modbus-RTU protocol
Spectral range	0.3~3 μ m
Power supply	10 - 30V D/C
Power consumption	0.08W
Working temperature	- 40°C to +60°C
Working humidity	0%~100%RH
Measuring range	0~1800W/m ²
Resolution	1W/ m ²
Response time	≤10S
Nonlinear	<±2%
Annual stability	≤±2%
Cosine response	≤±10%