

Panel Rails

HDG Steel or Magnelis, apt for direct module attachment and grounding. Securely attaches panel rails to torque tube.

Torque Tube

Splices made with easy-to-install bolt-on clamps eliminating field welding or time consuming tasks.

Monoline 2V - Bifacial
60 Panels per row

Monoline 2V
60 Panels per row

Monoline 3H
90 Panels per row

Inclinometer

Detects tilt angle of array

Transmission

Transfers motive force from gear box to torque tube.

Gear Box / Industrial DC Motor

Transfers motive force from motor to slew drive / 0.37 , 0.55 , or 0.75 hp (depending on row length)

CABLE ROUTING CLIPS

FOR PHOTOVOLTAIC ELECTRICAL CABLES



STRUCTURAL & MECHANICAL SPECIFICATIONS

Tracker Type	Horizontal Single-Axis
Rotational Range	+/-55°
Motor Type	DC Motor
Motors per MWp (355 Wp modules)	46.95 (Monoline2V 60), 31.3 (Monoline 3H)
Modules Supported	Virtually all commercially available modules (adaptable for thin film)
Grade Tolerances	N-S: 3% (8% optional) E-W: Unlimited%
Module Configuration	Two modules in portrait / Three modules in landscape
Module Attachment	Direct mount to panel rail (configurable for clips)
Structural Materials	Hot-dipped Galvanized Steel per ASTM A123 or ISO 1461
Allowable Wind Load	Tailored to site specific conditions up to 120mph 193kph
Grounding System	Self-grounded via serrated fixation hardware
'Storm Alarm' Detection System for Sustained High Winds	Yes (from +/-55° to stow, in about 5 minutes)
Wind Speed Sensors	3-cup anemometer
Solar Tracking Method	Astronomical algorithm
Controller Electronics	Central control unit manages up to 200 trackers through serial (rs485) or wireless communication
SCADA Interface	Modbus TCP
Nighttime Stow	Yes (configurable)
Backtracking	Yes
In-field Fabrication Required	No
On-site Training and Commissioning	Yes, included in tracker supply
Standard Warranties	Structure: 10 years Electromechanical components: 3 years
Certifications	USA: UL508 ASCE 7-10, UL3703 includes UL2703 Europe: CE, IEC TS62727
Structural Adaptation to Local Codes & Requirements	Verified by third-party structural engineers

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**PROGETTO PER LA REALIZZAZIONE DI UN PARCO
AGRIVOLTAICO E DELLE RELATIVE OPERE
DI CONNESSIONE ALLA RTN**



Comune di Ramacca
Località: "Masseria Magazzinazzo"

**A. PROGETTO DEFINITIVO DELL'IMPIANTO, DELLE
OPERE CONNESSE E DELLE INFRASTRUTTURE INDISPENSABILI**

ELABORATI GRAFICI

Codice:	GMR02	Autorizzazione Unica ai sensi del D.Lgs 387/2003 e D.Lgs 152/2006		
N° elaborato:	A.12.a.25	Dettaglio pannelli e sistemi di ancoraggio		
N° Foglio	Tot. Fogli	Formato	Scala	Tipo di documento
1	1	A3	-	Progetto Definitivo

Progettazione



Proponente

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Data

Giugno 2023

Progettisti

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Revisioni	Rev.	Data	Descrizione	Elaborato	Controllato	Approvato
	00	06/2023	Emissione	AS	QV/AS/DR	QI

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