

**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

**Regione  
SICILIA**



**Provincia  
CATANIA**



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

**Progettazione**



**Proponente**

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**Rappresentante legale proponente**

**Emmanuel MACQUERON**

**Data**

**Giugno 2023**

**Progettisti**

Ing. Vassalli Quirino



Ing. Speranza Carmine Antonio



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

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