

PROVINCIA DI MATERA COMUNE DI SALANDRA E SAN MAURO FORTE

LOCALITA':

PROGETTO:
INTERVENTO PER L'ATTUAZIONE DELLA TRANSIZIONE ENERGETICA, MEDIANTE LA REALIZZAZIONE DI UN PARCO AGRIVOLTAICO DIFFUSO A TERRA, DI POTENZA PARI A CIRCA 160,00 MWP, CON SISTEMA DI STORAGE E GRUPPO POWER-TO-GAS, PER LA PRODUZIONE DI IDROGENO VERDE"

TITOLO DOCUMENTO:
PARTICOLARE DEI SISTEMI DI ANCORAGGIO DEI PANNELLI

REFERENTE PER LO SVILUPPO DEL PROGETTO



ENERGY CONSULTING & SERVICES ITALY s.r.l.

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SOGGETTO RICHIEDENTE



CLEAN ENERGY BASILICATA S.R.L.

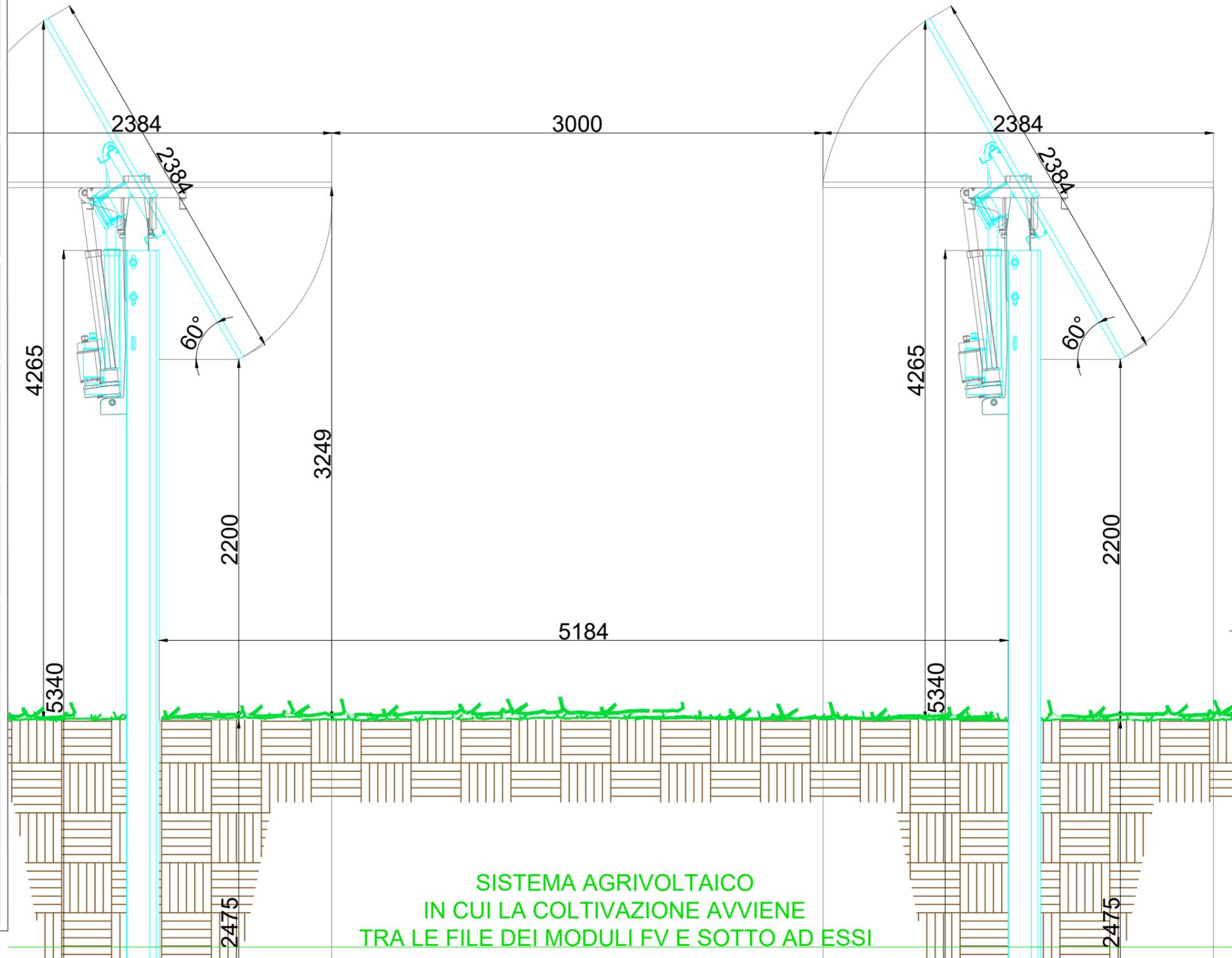
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GRUPPO DI PROGETTAZIONE



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Codice lavoro	Livello proget.	Cat. Op.	Tipologia	Numero	Rev.	Pag.	di	Nome file	Scala	Progressivo
C261	PD	I.FV_IF	R	01	/00	1	1	A12h_9_Particolare_sist_ancoraggio		
Rev.	Data	Descrizione						Redazione	Controllo	Approvazione
00	Aprile 2024	Emissione						Ing. Domenico Castaldo EGM Project	Ing. Domenico Castaldo EGM Project	Ing. Domenico Castaldo EGM Project



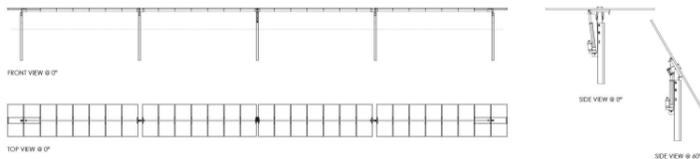
CONVERT-1P | SINGLE-AXIS SOLAR TRACKER



STRUCTURAL/MECHANIC FEATURES

Tracking Technology	Horizontal, balanced single-axis tracker with independently driven rows and backtracking
Maximum Tracking Error	± 2°
Rotation Angle	± 55 (Up to 60°)
Module Compatibility	Adaptable to all available PV modules types on market: Monofacial and Bifacial (thin film, framed and frameless)
Ground Cover Ratio	Fully configurable; typical range from 25% to 50%
Land Slope	Up to 7% N-S (extended options available); Unlimited E-W
Configurations	1 module in portrait

EXAMPLE OF TYPICAL TRACKER TABLE WITH 56 MODULES



ELECTRONIC SPECIFICATIONS

Motor	Linear actuator with induction AC motor (lubrication free) with integrated encoder
System	Electronic control boards for multiple system architectures (two solutions 10 or 100 actuators in closed loop with encoder)
Power Supply	<ul style="list-style-type: none"> AC power supply from auxiliary service Self-powered from PV string (patented backup solution without batteries) Smart power integration with string inverters
Operating Temperature Range	-20°/50° C (-4° F/122° F) extended range available
Solar Tracking Method	Astronomical clock with GPS input; self-configuring; no irradiation or tilt sensor required
Monitoring & Data Stream	Wireless or wired (RS485, Ethernet, Fiber)
Communication	Real-time local or remote communication data provided via Modbus

INSTALLATION

Foundation	Compatible with all foundation types (driven pile, ground screw, concrete)
Installation Method	Requires no specialized personnel or equipment; no in-field welding
Module Installation Method	Rivets, bolts or clamps
Grounding Method	Self-ground structure; no separate materials or labor
Warranty	10 years on structural components; 5 years on motors and electronic components (extended warranty available)