


MODULI - SCHEDA TECNICA



ASTRO N5
CHSM78N(DG)/F-BH
Bifacial Series (182)
605~625W

Key Features

- TOPCon / Half Cut
- Low temperature coefficient (Tempco)
- Non-destructive cutting
- PID resistance
- Low BOS cost & LOE
- Bifacial gain

Warranty

99.99%
87.46%
84.54%

605~625W 0~+5W 22.4% ≤ 1.0% ± 0.4%

Mechanical Specifications

Electrical Specifications

Temperature Ratings (STC) Operating Parameters

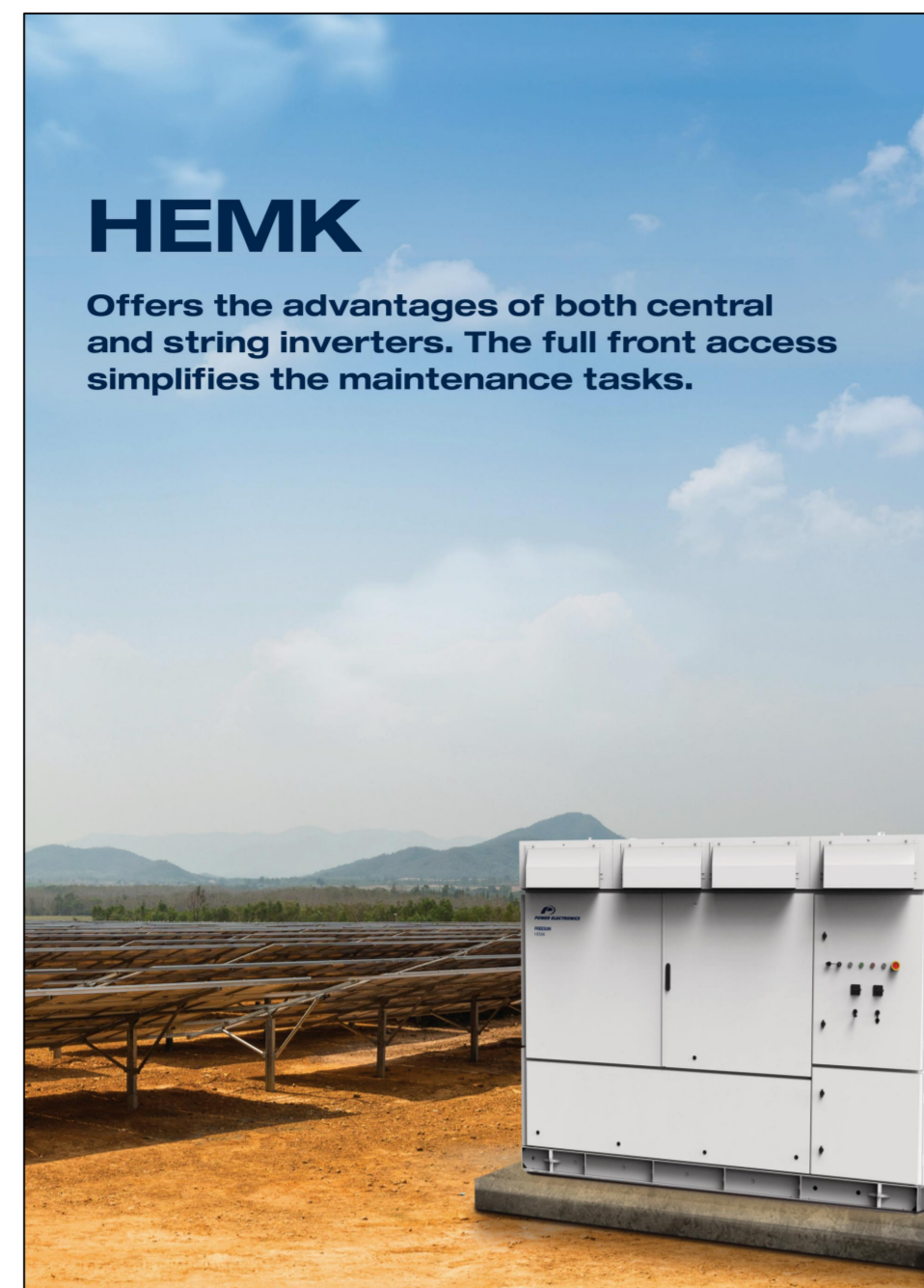
Curve

Current Voltage (I-V)

Power Voltage (P-V)

Current Voltage (I-V)

INVERTER - SCHEDA TECNICA



HEMK

Offers the advantages of both central and string inverters. The full front access simplifies the maintenance tasks.

HEMK

690V

REFERENCES

	FRAME 2	FRAME 3	FRAME 4
AC Output Power (VA) MW	2115	3706	4950
AC Output Power (VA) kW	2035	3595	4875
Max AC Output Current (A) 50Hz	1837	3796	3924
Operating DC Voltage (VDC)	600V ±10%		
Operating DC Current (A)	9000A		
Current Harmonic Distortion (THD)	≤ 3% per IEC 61819		
Power Factor (cosφ) pF	0 leading, 0.3 lagging adjustable / Reactive power 2500Var to 10kVar		
DC voltage range	575V - 1200V		
Max DC Current (A)	130 to 30	130 to 30	130 to 40
Max DC Short Circuit Current (A)	2475	3445	4590
Max DC Continuous Current (A)	2475	3445	4590
Number of MPPT (string systems)	1	1	1, optional 2 or 4
Number of Power Lines (DC/AC)	1 up to 2, 3, 4 Plus Resistor or 4 Plus Plus Resistor		
Efficiency (Max)	98.84%	98.87%	98.85%
Efficiency (90%)	98.42%	98.84%	98.85%
Dimensions (WxDxH) (mm)	58 x 8 x 7.2		
Dimensions (WxDxH) (mm)	58 x 8 x 7.2		
Weight (kg)	11485	11795	12175
Weight (kg)	5280	3700	3680
Type of ventilation	Forced air cooling		
Range of operation	10000-30000		
Permissible Ambient Temperature ¹⁾	-25°C to +40°C, Active Power derating		
Relative humidity	0% to 100% non-condensing		
Max. Altitude (above sea level)	2000m / 2000ft (power derating Max. 4000m)		
Control	Control via Modbus, RS485, Ethernet		
Protection	IP65, IP67, IP68		
Protections	General AC Protection & Disconn, General DC Protection & Disconn, Overvoltage Protection		
Certifications & Standards	UL 1741 / UL 1741-2 / IEC 62109-1 / IEC 62109-2 / IEC 62109-3 / IEC 62109-4 / IEC 62109-5 / IEC 62109-6 / IEC 62109-7 / IEC 62109-8 / IEC 62109-9 / IEC 62109-10 / IEC 62109-11 / IEC 62109-12 / IEC 62109-13 / IEC 62109-14 / IEC 62109-15 / IEC 62109-16 / IEC 62109-17 / IEC 62109-18 / IEC 62109-19 / IEC 62109-20 / IEC 62109-21 / IEC 62109-22 / IEC 62109-23 / IEC 62109-24 / IEC 62109-25 / IEC 62109-26 / IEC 62109-27 / IEC 62109-28 / IEC 62109-29 / IEC 62109-30 / IEC 62109-31 / IEC 62109-32 / IEC 62109-33 / IEC 62109-34 / IEC 62109-35 / IEC 62109-36 / IEC 62109-37 / IEC 62109-38 / IEC 62109-39 / IEC 62109-40 / IEC 62109-41 / IEC 62109-42 / IEC 62109-43 / IEC 62109-44 / IEC 62109-45 / IEC 62109-46 / IEC 62109-47 / IEC 62109-48 / IEC 62109-49 / IEC 62109-50 / IEC 62109-51 / IEC 62109-52 / IEC 62109-53 / IEC 62109-54 / IEC 62109-55 / IEC 62109-56 / IEC 62109-57 / IEC 62109-58 / IEC 62109-59 / IEC 62109-60 / IEC 62109-61 / IEC 62109-62 / IEC 62109-63 / IEC 62109-64 / IEC 62109-65 / IEC 62109-66 / IEC 62109-67 / IEC 62109-68 / IEC 62109-69 / IEC 62109-70 / IEC 62109-71 / IEC 62109-72 / IEC 62109-73 / IEC 62109-74 / IEC 62109-75 / IEC 62109-76 / IEC 62109-77 / IEC 62109-78 / IEC 62109-79 / IEC 62109-80 / IEC 62109-81 / IEC 62109-82 / IEC 62109-83 / IEC 62109-84 / IEC 62109-85 / IEC 62109-86 / IEC 62109-87 / IEC 62109-88 / IEC 62109-89 / IEC 62109-90 / IEC 62109-91 / IEC 62109-92 / IEC 62109-93 / IEC 62109-94 / IEC 62109-95 / IEC 62109-96 / IEC 62109-97 / IEC 62109-98 / IEC 62109-99 / IEC 62109-100		

CONTAINER BESS - SCHEDA TECNICA



CO BLOCK **HTHIUM**

ESS Container
5.015 MWh
Liquid-cooled battery storage system

High safety

- High thermal stability thanks to liquid cooling
- Multi-stage active fire protection system, compliant to NFPA 805
- Use of highly safe prismatic HTHiUM LFP cells
- Dedicated cell monitoring and protection system

Low LOGS (Levelized Cost of Storage)

- Excellent thermal management improves energy throughput
- Optimizing optimal operating temperature
- Highly integrated including thermal management system, fire protection system, BMS, etc.
- Supports rack to back and side by side installations

ESS Container
5.015 MWh
Liquid-cooled battery storage system based on prismatic LFP cells with very high cycle lifetime

GENERAL

Battery Type

MECHANICAL

TEMPERATURE RANGE

ELECTRICAL

ENVIRONMENTAL

CERTIFICATIONS

COMPANY CERTIFICATIONS

INVERTER BESS - SCHEDA TECNICA



MV Skid Compact

Turn-key solution
Easy and fast connection
Compact and modular
Simple commissioning

MV Skid Compact

GENERAL

MECHANICAL

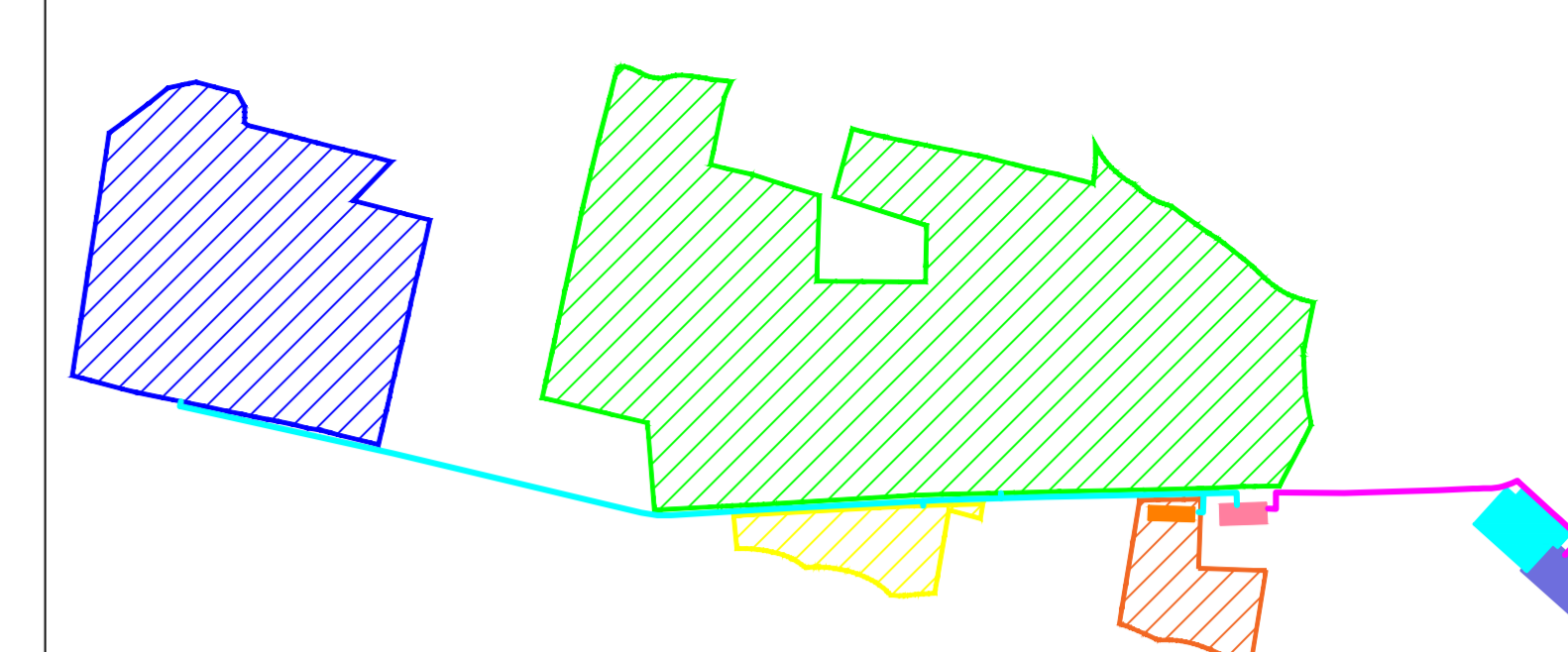
TEMPERATURE RANGE

ELECTRICAL

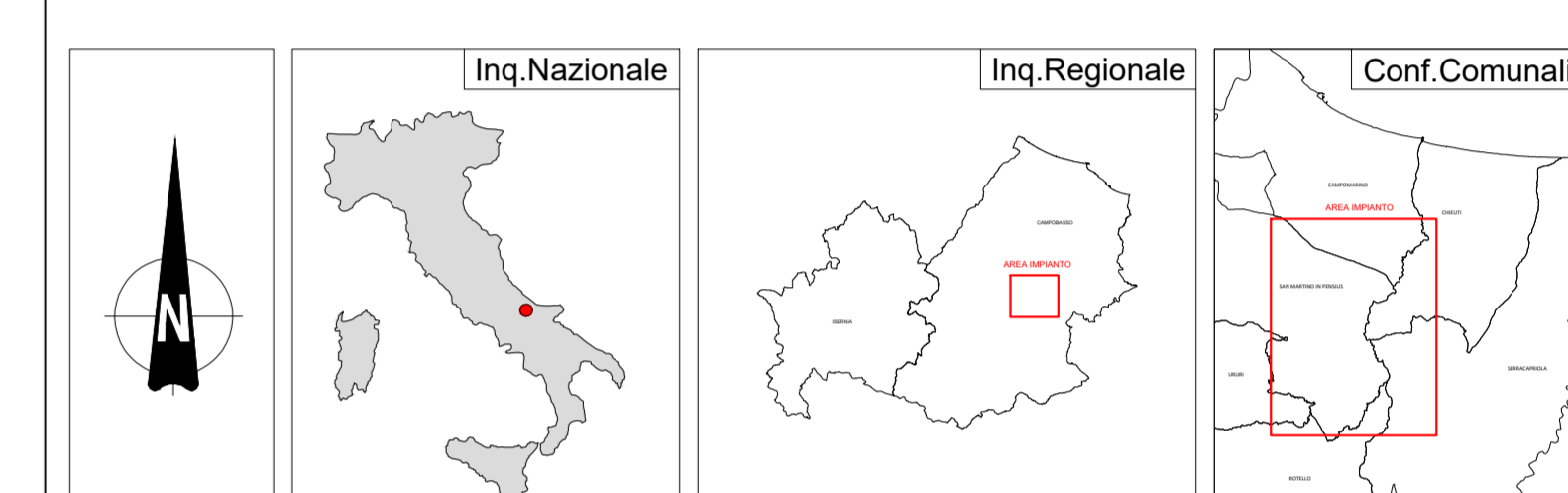
ENVIRONMENTAL

CERTIFICATIONS

COMPANY CERTIFICATIONS



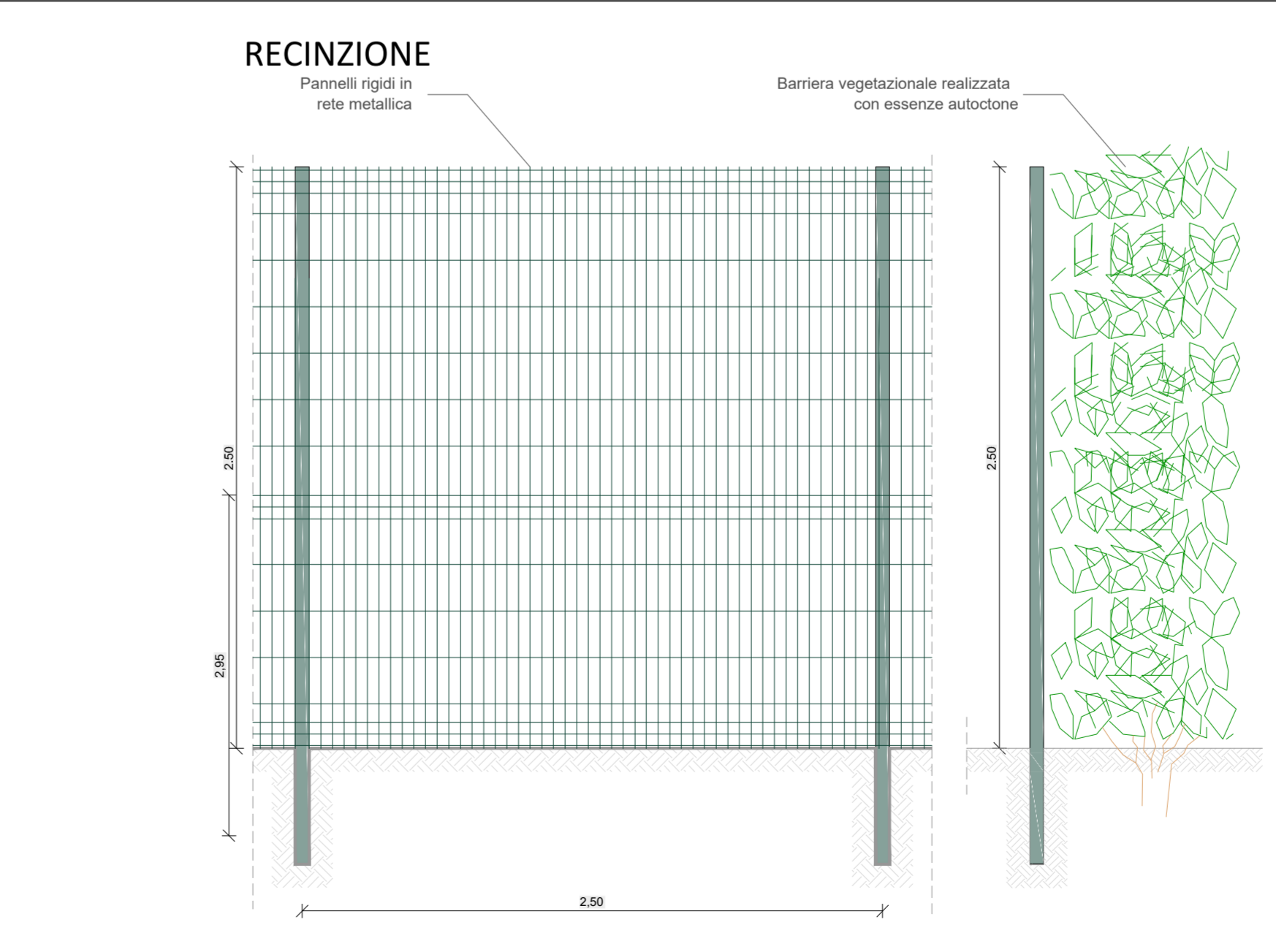
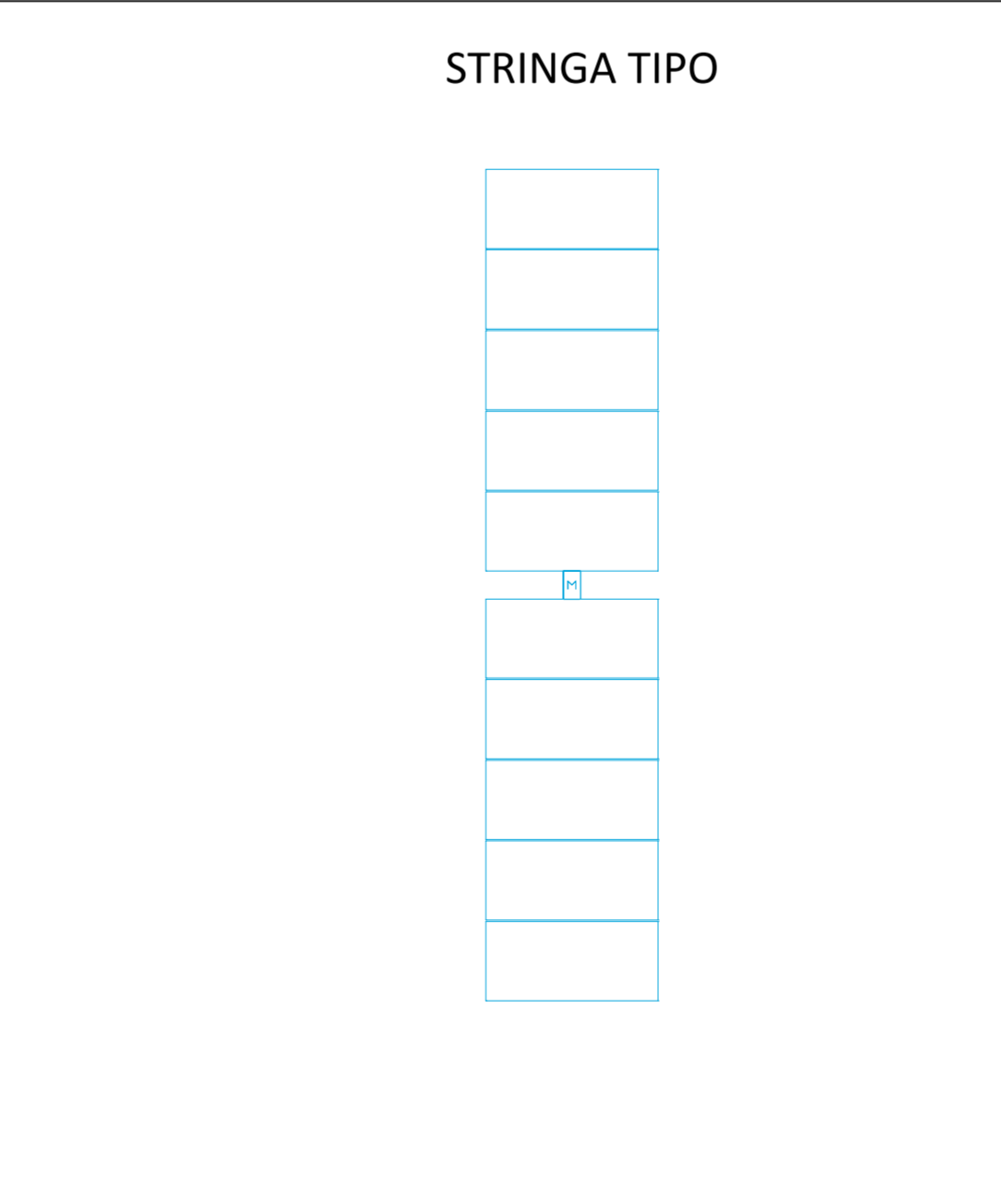
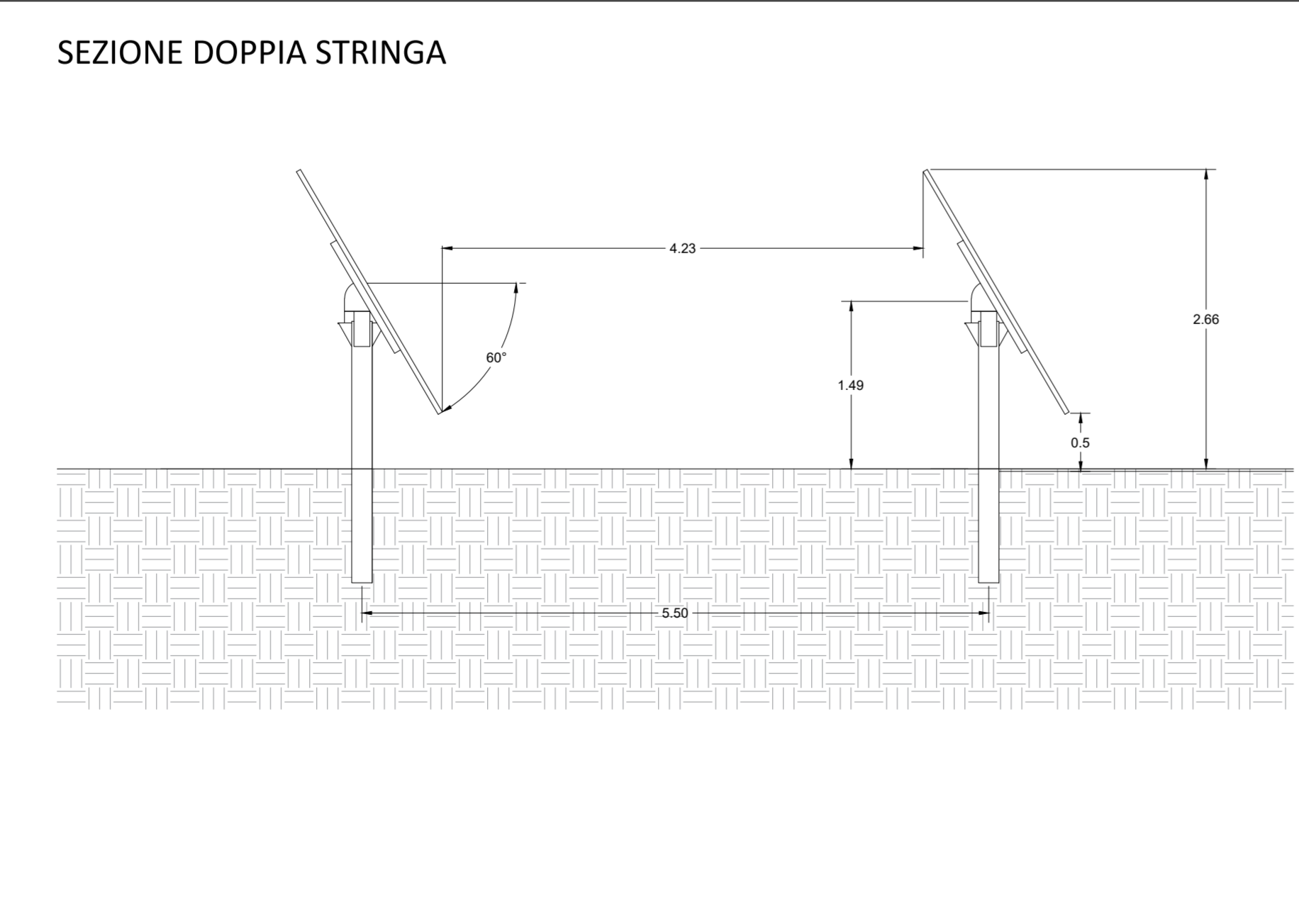
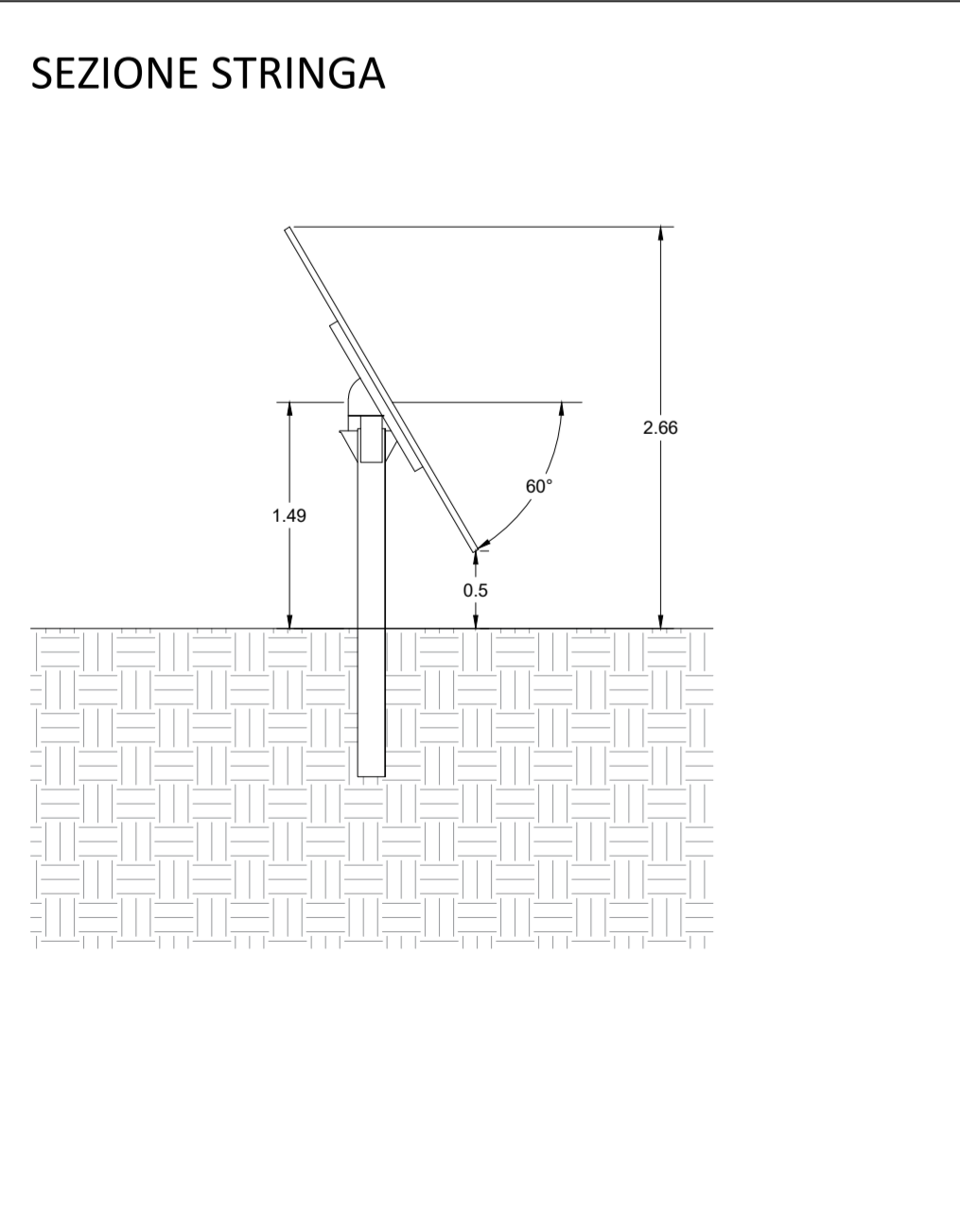
	Tracker 1v26	Tracker 1v39	Tracker 1v52	Totale Pannelli	Potenza Mw in DC	Power Station
1	132	128	885	54.444	34,0275	4
2	459	324	1.983	128.622	80,38875	9
3	38	36	19	3.380	2,1125	1
4	59	26	108	8.164	5,1025	1
	724	514	2.995	194.610	121,63125	15



COMUNE DI SAN MARTINO IN PENSILIS
Provincia di CAMPOBASSO

committente: **SOLAR ENERGY SEI S.r.l.**
Via Sebastian Altmann, n.9 - 39100 Bolzano (BZ)

progetto: **"PROGETTO PARCO AGROVOLTAICO - Potenza di picco di 121,631 MWp e Potenza Nominale di 109,805 MW e con abbinato sistema di accumulo Potenza Nominale 50,4 MW Comune di SAN MARTINO IN PENSILIS (CB) Località Saccione - Sassano e relative opere di connessione"**



MERLINO PROGETTI

il progettista: **Dott. Ing. Domenico Merlino**

denominazione elaborato: **PARTICOLARI COSTRUTTIVI**
scala varie

elaborato n.: **17EG**

01 LUGLIO 2024 prima emissione LD

REV. DATA DESCRIZIONE DISEGNATORE