



REGIONE SICILIANA
PROVINCIA DI RAGUSA
COMUNE DI CHIARAMONTE GULFI



PROGETTO DI UN IMPIANTO AGRO-BIO-FOTOVOLTAICO INTEGRATO AD UN VIGNETO A TENDONE E DELLE RELATIVE OPERE DI CONNESSIONE DA REALIZZARE NEL COMUNE DI CHIARAMONTE GULFI (RG) IN CONTRADA MAZZARRONELLO, AL FOGLIO 129 P.LLE 6,8, 16, 19, 87, 178, 180, 186, 187, 188, 193, 194, 197, 200, 201, 202, 308, 394, 395, 397, 399, 626, 634, 636, 669, 10, 69, 287, 299, 300, 712, 713, 185, DI POTENZA PARI A **63.158,76 kWp** DENOMINATO **"MAZZARRONELLO HV - VIGNETICA"**

PROGETTO DEFINITIVO

PARTICOLARI COSTRUTTIVI
STRUTTURE FOTOVOLTAICHE



IMPIANTO AGRIVOLTAICO AVANZATO

LAOR
(Land Area Occupation Ratio)
24,5%

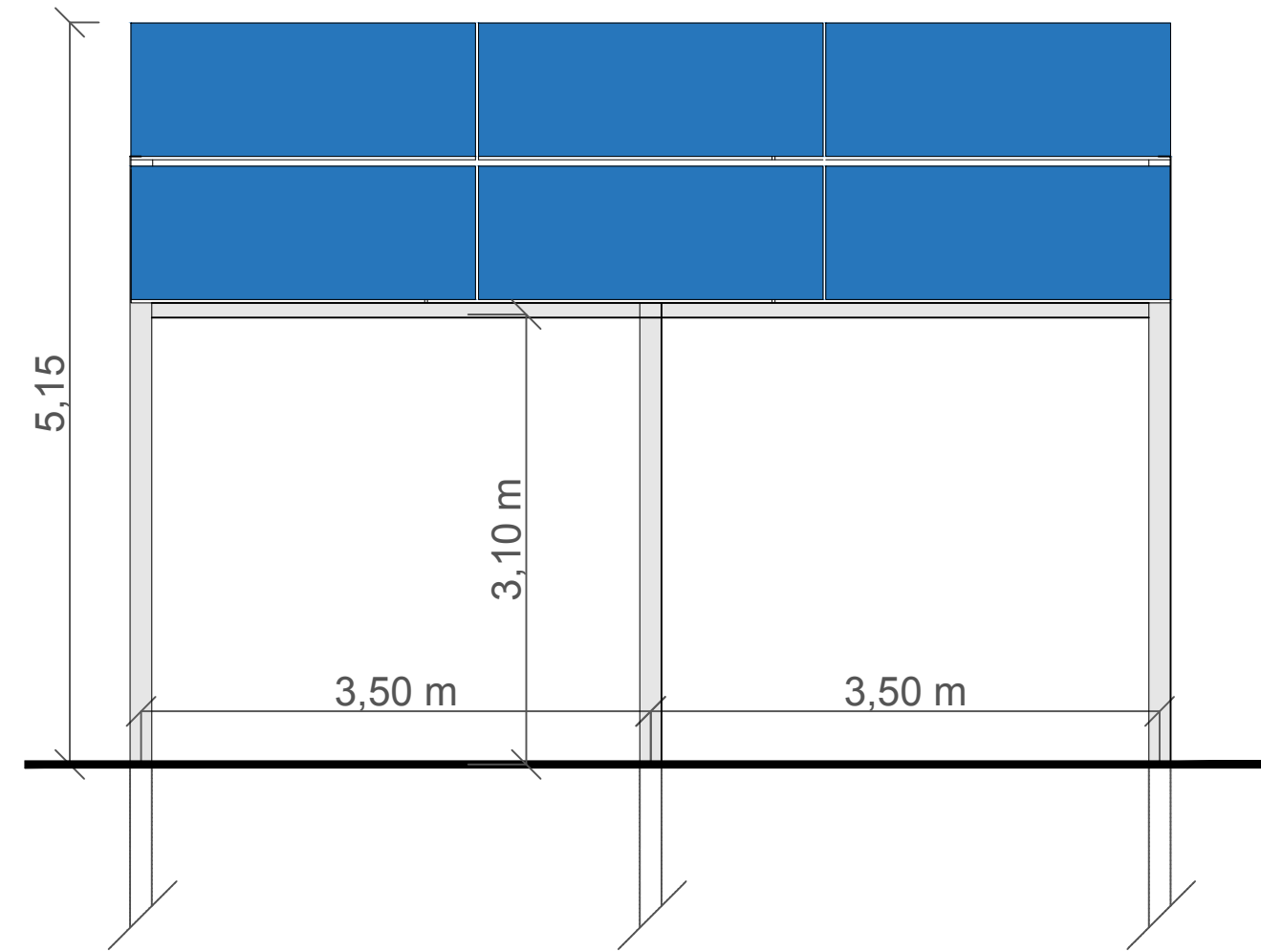
LIV. PROG.	COD. PRATICA TERNA	CODICE ELABORATO	TAVOLA	DATA	SCALA
PD	202102524	VIGNETICA_B14	Tav. 12	14.09.2023	Varie

REVISIONI					
REV.	DATA	DESCRIZIONE	ESEGUITO	VERIFICATO	APPROVATO

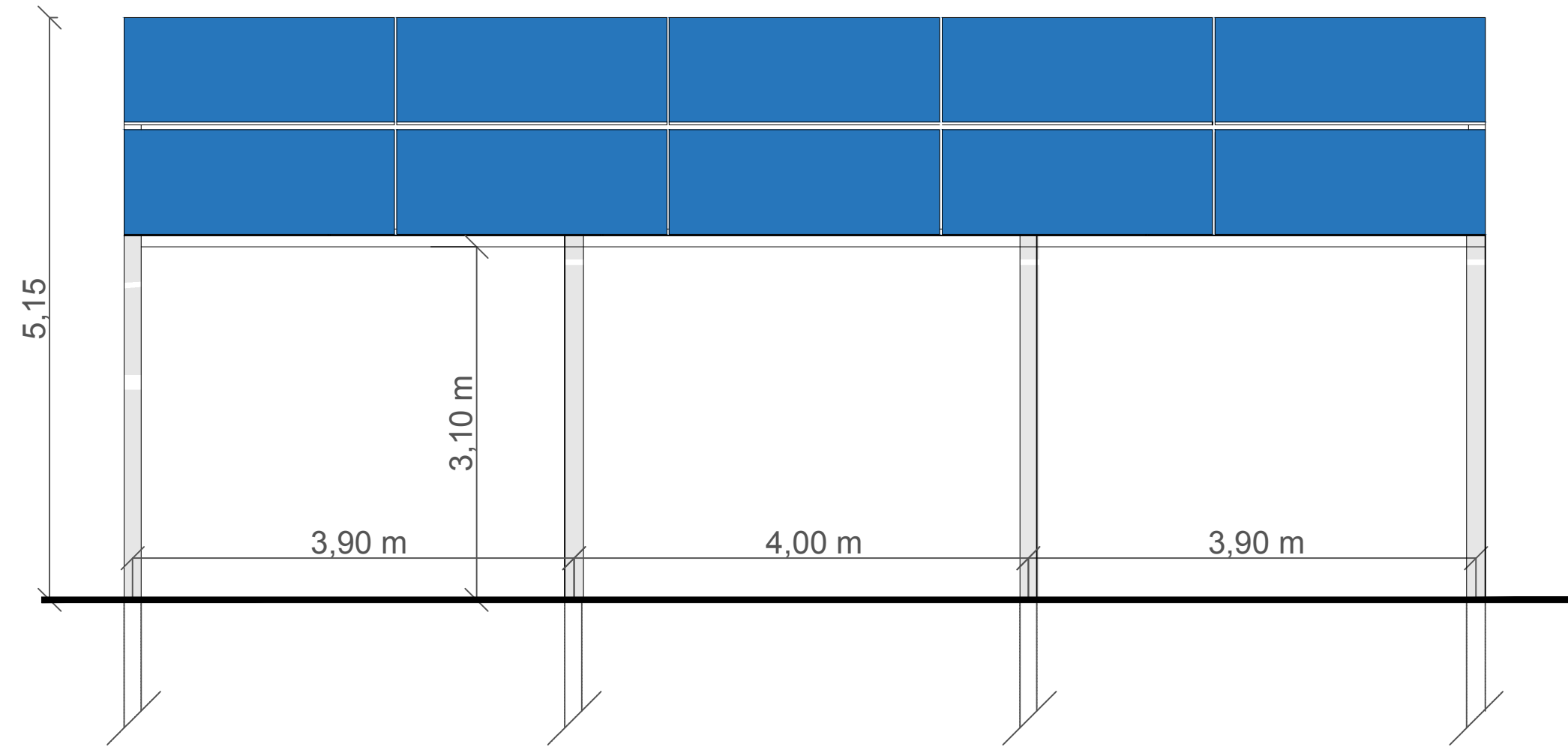
RICHIEDENTE E PRODUTTORE	ENTE
HF SOLAR 9 S.r.l.	
Viale Francesco Scaduto n°2/D - 90144 Palermo (PA)	FIRMA RESPONSABILE

PROGETTAZIONE	PROGETTISTA INCARICATO
HORIZONFIRM Ing. D. Siracusa Arch. M. Gullo Ing. A. Costantino Arch. S. Martorana Ing. C. Chiaruzzi Arch. F. G. Mazzola Ing. G. Schillaci Arch. A. Calandrina Ing. G. Buffa Arch. G. Vella Ing. M.C. Musca Dott. Agr. B. Miciluzzo	FIRMA DIGITALE PROGETTISTA FIRMA OLOGRATA E TIMBRO PROGETTISTA

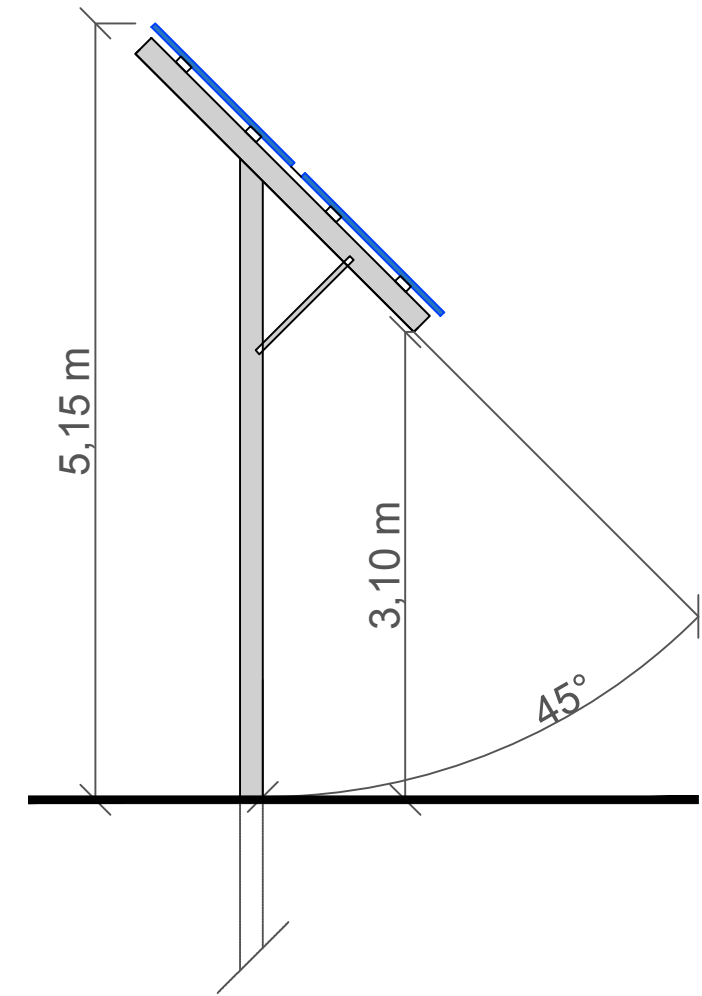
STRUTTURE INTEGRATE A VIGNETO A TENDONE



PROSPETTO TIPOLOGIA 1) SUB-VERTICALE TILT 45° - h_{min}=3,10 m

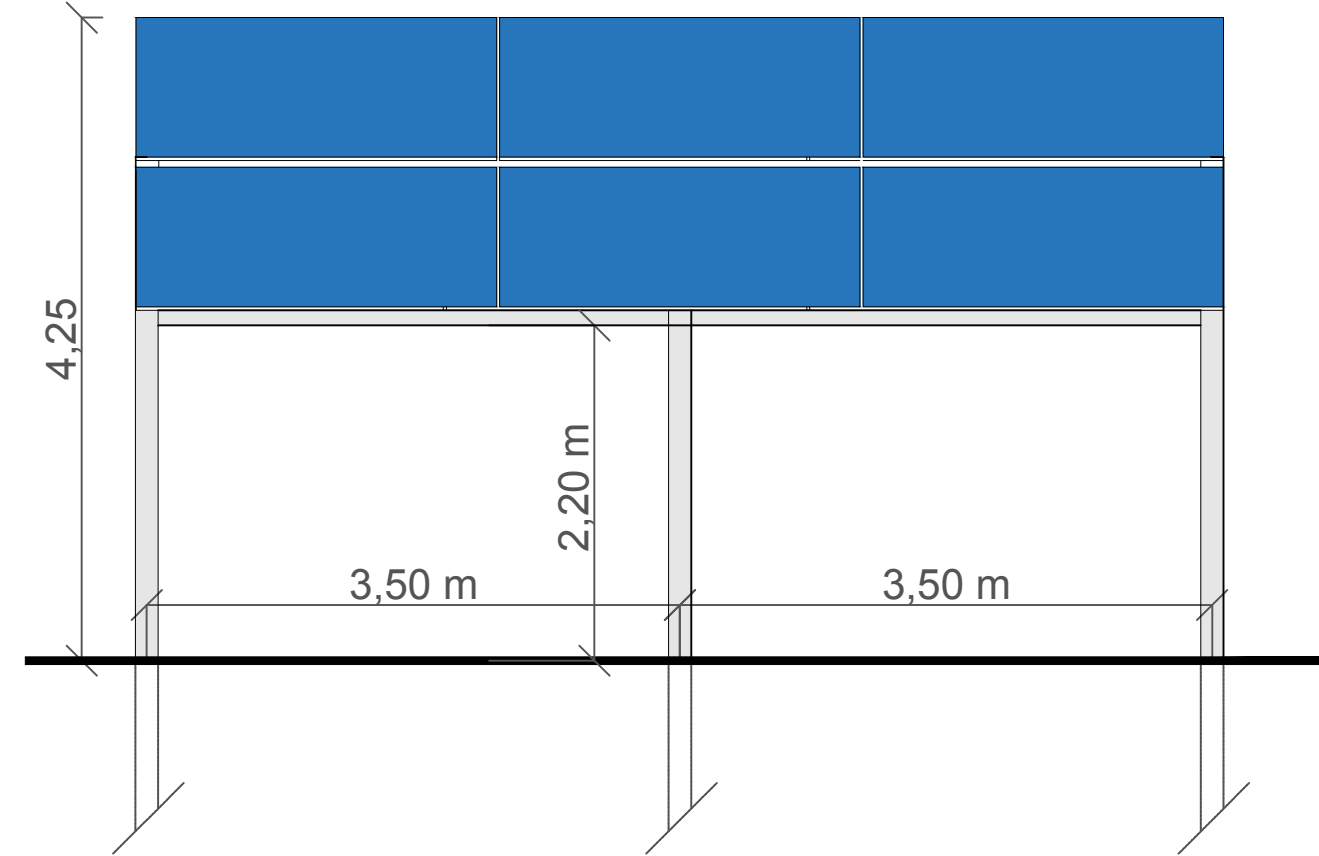


PROSPETTO TIPOLOGIA 2) SUB-VERTICALE TILT 45° - h_{min}=3,10 m

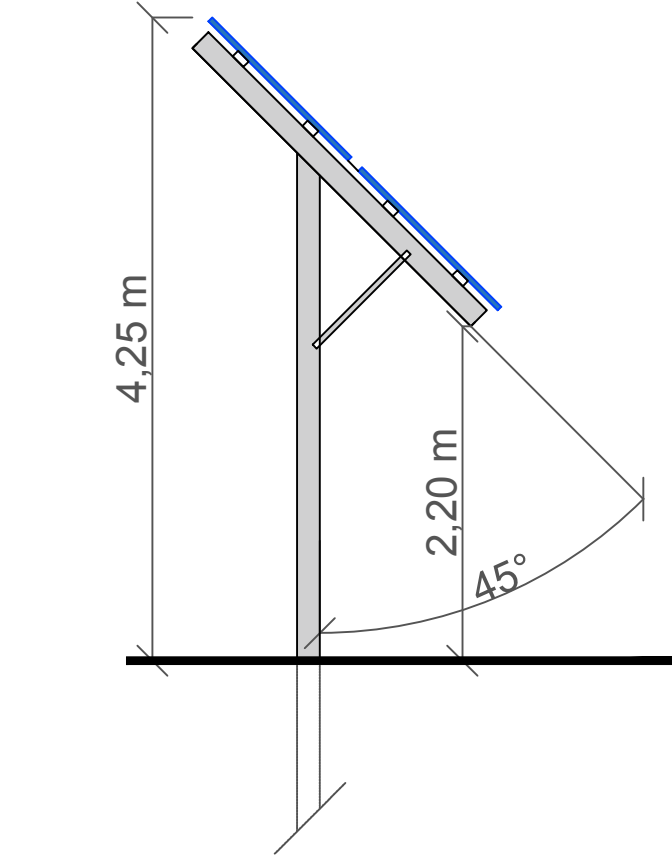


PROFILO SUB-VERTICALE TILT 45° - SCALA 1:50

STRUTTURE INTEGRATE A VIGNETO A SPALLIERA

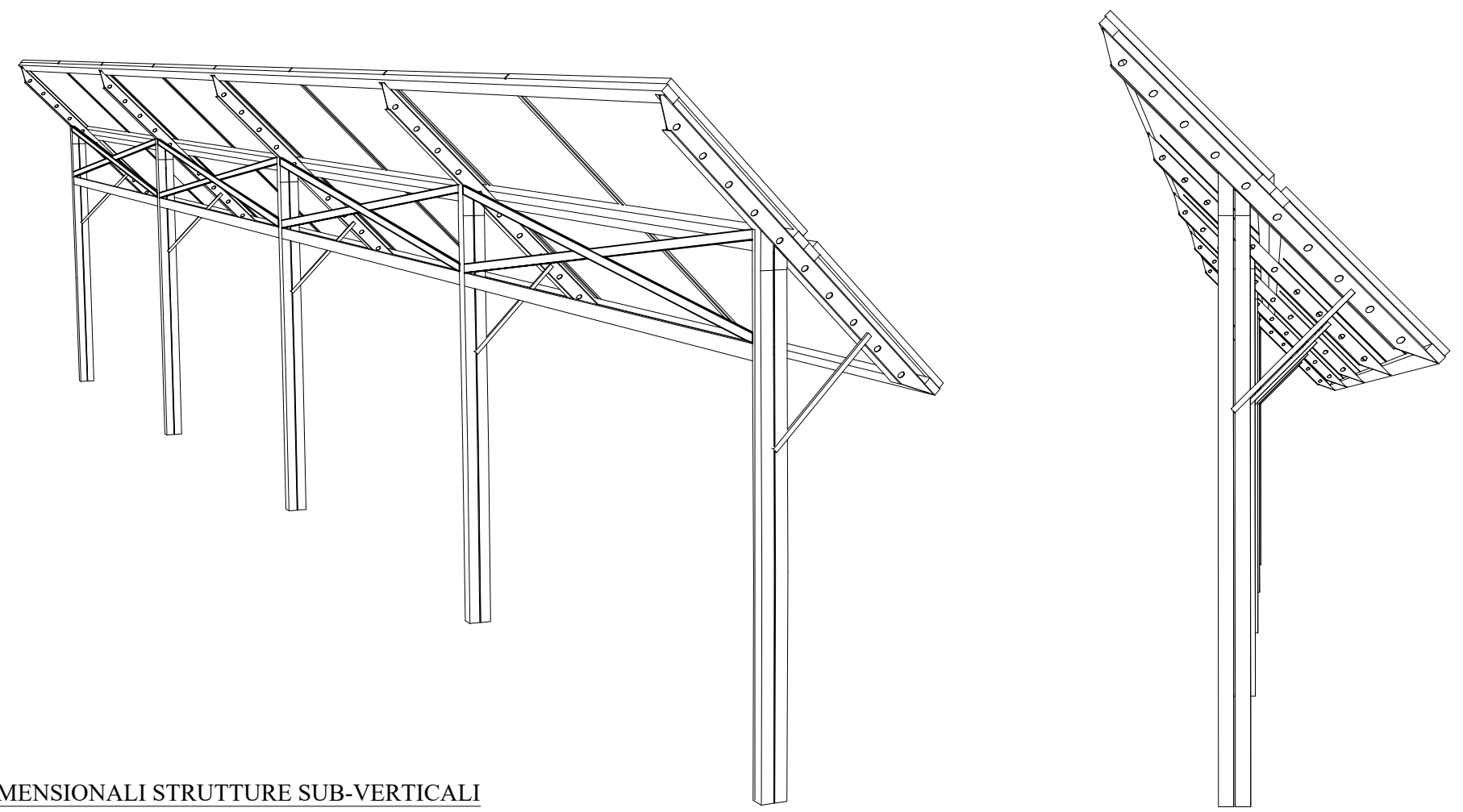


PROSPETTO SUB-VERTICALE TILT 45° - h_{min}=2,20 m



PROFILO SUB-VERTICALE TILT 45° - SCALA 1:50

VISTE TRIDIMENSIONALI STRUTTURE SUB-VERTICALI



SPECIFICATIONS (STC*)

Module Type	MS690N-HJTGB	MS695N-HJTGB	MS700N-HJTGB	MS705N-HJTGB	MS710N-HJTGB
STC	STC	STC	STC	STC	STC
Maximum Power (Pmax)	690Wp	695Wp	700Wp	705Wp	710Wp
Maximum Power Voltage (Vmp)	41.80V	41.95V	42.10V	42.25V	42.40V
Maximum Power Current (Imp)	16.51A	16.57A	16.63A	16.69A	16.75A
Open-circuit Voltage (Voc)	49.82V	49.95V	50.13V	50.29V	50.44V
Short-circuit Current (Isc)	17.31A	17.37A	17.43A	17.49A	17.55A
Module Efficiency STC (%)	22.21%	22.37%	22.53%	22.69%	22.86%
Operating Temperature (°C)	-40°C~+85°C				
Maximum System Voltage	1500VDC (IEC)				
Maximum Series Fuse Rating	30A				
Power Tolerance	0~+6W				
Temperature Coefficients of Pmax	-0.260%/°C				
Temperature Coefficients of Voc	-0.240%/°C				
Temperature Coefficients of Isc	0.040%/°C				
Nominal Module Operating Temperature (NMOT)	42.30±2°C				

REAR SIDE POWER GAIN (BIFACIAL OUTPUT, FOR 700W)

Power Gain	5%	10%	15%	20%	25%	30%
Maximum Power (Pmax)	735Wp	770Wp	805Wp	840Wp	875Wp	910Wp
Maximum Power Voltage (Vmp)	42.10V	42.10V	42.10V	42.10V	42.10V	42.10V
Maximum Power Current (Imp)	17.45A	18.28A	19.12A	19.95A	20.78A	21.62A
Open-circuit Voltage (Voc)	50.13V	50.13V	50.13V	50.22V	50.22V	50.22V
Short-circuit Current (Isc)	18.30A	19.17A	20.04A	20.92A	21.78A	22.65A

NMOT* (Nominal Module Operating Temperature):
Irradiance 800W/sqm, Ambient Temperature 20°C, AM 1.5, Wind Speed 1m/s

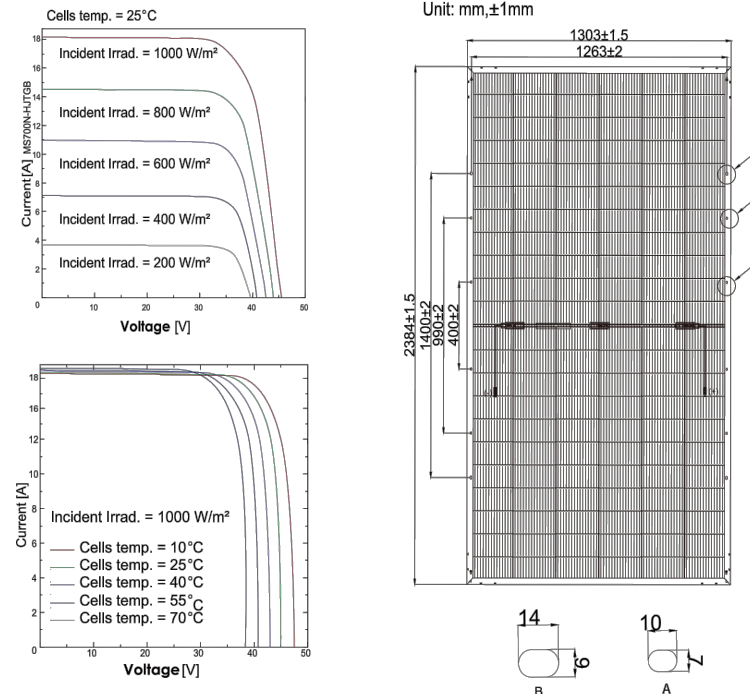
*Power measurement tolerance: +/-3%

Mechanical Characteristics

Cell Type	N-type HJT 210x210mm
No. of cells	132 (6*22)
Dimensions	2384x1303x35mm (±1mm)
Weight	38.80KG ±2%
Glass	2.0mm Anti-Reflection Coating, High Transmission, Tempered Glass
Frame	Anodized aluminium alloy
Junction Box	IP68 Rated, 3 diodes
Cable & Connector	4mm² cable: +1.4m/-1.4m or +0.3m/-0.3m or Customized, MC4 compatible

Packaging Info

(Two pallets = One stack)
31 pcs/pallet, 558 pcs/40'HQ Container



Mysolar reserves the right to make necessary adjustment to the information described herein at any time without further notice due to continuous innovation and product improvement. Please be kindly noted installation of Mysolar solar modules shall be done by professional skilled people. Please read the installation manual carefully before using Mysolar solar panels.

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DATASHEET INDICATIVO DEI PANNELLI UTILIZZATI NEL LAYOUT
Si specifica che in fase di realizzazione dell'impianto verranno utilizzati moduli TIER 1