



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

HF SOLAR 9 S.r.l.

Viale Francesco Scaduto n°2/D - 90144 Palermo (PA)

PROGETTAZIONE
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. Calandrino
Ing. G. Buffa Arch. G. Vella
Ing. M.C. Musca Dott. Agr. B. Miciluzzo
HORIZONFIRM S.r.l. - Viale Francesco Scaduto n°2/D - 90144 Palermo (PA)

ENTE

PROGETTISTA INCARICATO

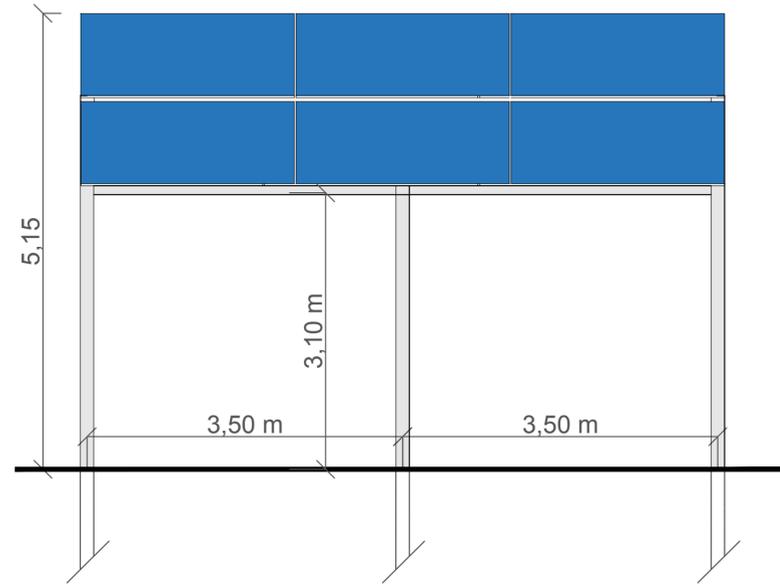
FIRMA RESPONSABILE



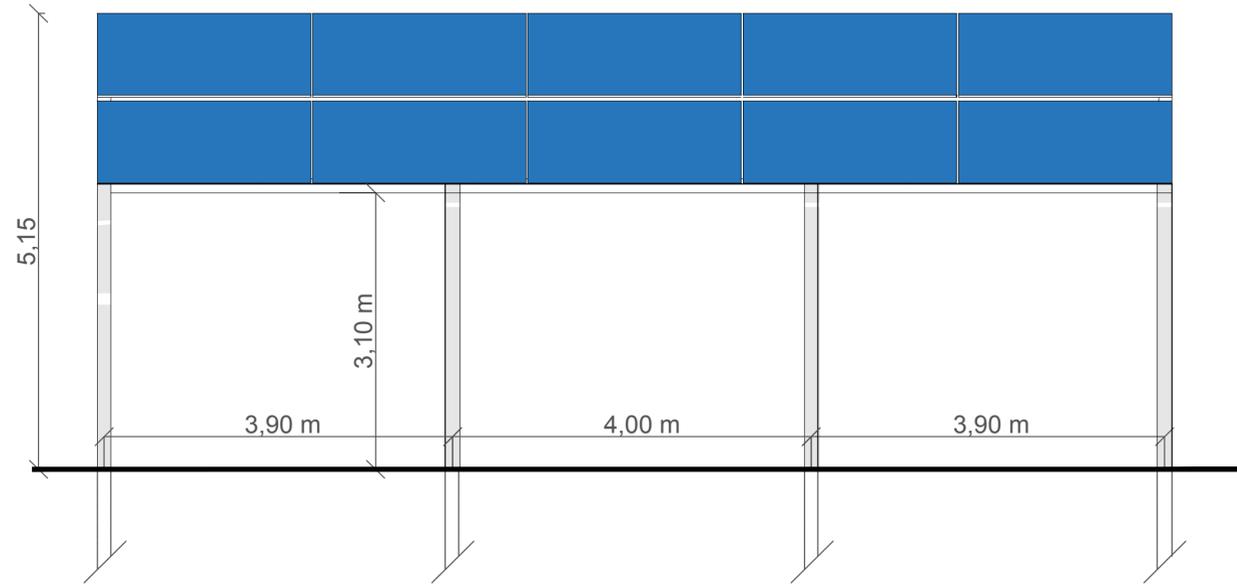
FIRMA DIGITALE PROGETTISTA

FIRMA OLOGRAFA E TIMBRO PROGETTISTA

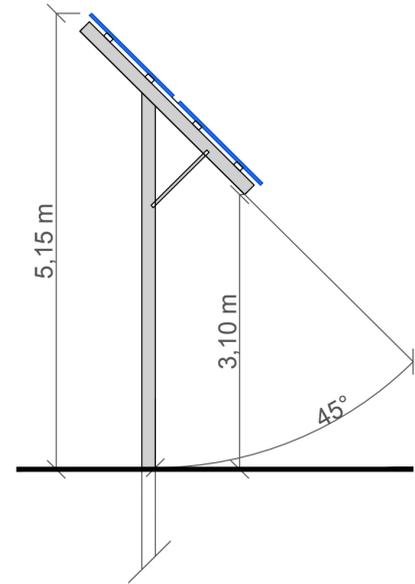
STRUTTURE INTEGRATE A VIGNETO A TENDONE



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

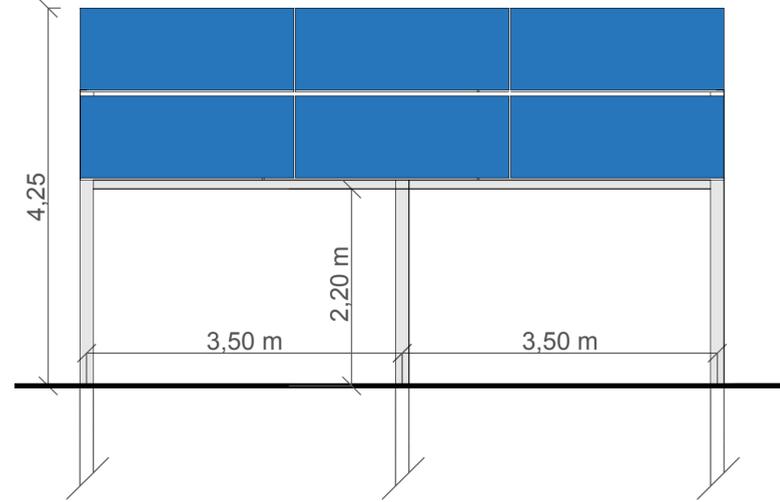


PROSPETTO TIPOLOGIA 2) SUB-VERTICALE TILT 45° - h_{min}=3,10 m

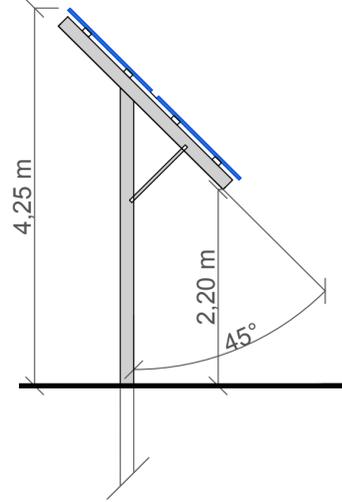


PROFILO SUB-VERTICALE TILT 45° - SCALA 1:50

STRUTTURE INTEGRATE A VIGNETO A SPALLIERA

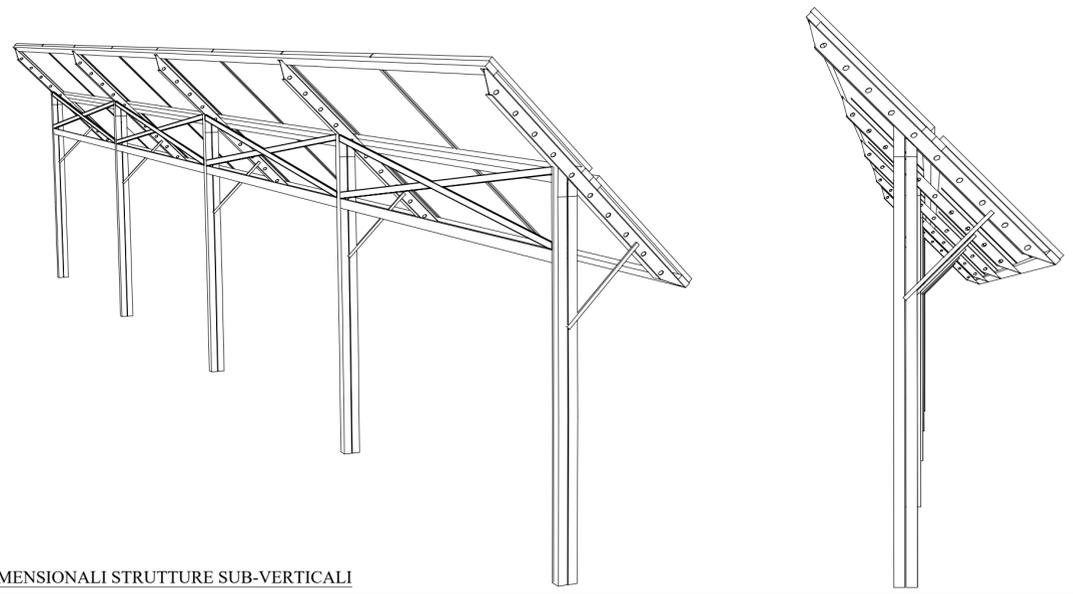


PROSPETTO SUB-VERTICALE TILT 45° - h_{min}=2,20 m



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

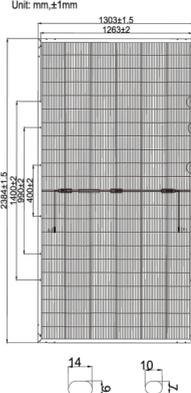
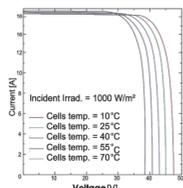
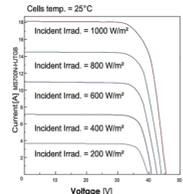
*Power measurement tolerance: +/-3%

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