

DATASHEET PANNELLO FV

recom
 BIFACIAL HJT MONO CRYSTALLINE HALF CUT MODULE - DOUBLE GLASS
 675 / 462 / 462 / 490 / 700 / 705 / 710 Watts

Lion Series

Overview
 Hetero Junction (HJT) photovoltaic module is a Groundbreaking Technology. HJT technology guarantees high performance and low degradation of the PV module, substantially improving the results and the yield in the time. Lion Series module is the ideal solution for end users who want a Quality PV & reliable product over time and a fast turnaround on their investments.

Key Benefits

- Joint P18 & L18 Technology
- 30 Years Limited Product Warranty
- Higher yield per surface area
- Low Power at 43.5% T_C
- Low LIDC
- Higher Light Conversion

Tests, Certifications and Warranties

Standard Tests: IEC 61215, IEC 61730
 Factory Quality Tests: ISO 9001, ISO 14001, ISO 26101
 Certifications: Conformance to IEC 61730, Fire safety Class C according to UL 796
 Insurance: Third party liability insurance provided by Lion's Mutual
 Wind and Snow Loads Testing: Module can be tested with extreme wind (2400 N/m²) and snow loads (2400 N/m²)
 Withstanding Test: Maximum duration of 25 min with impact speed of 23m/s
 Power Tolerance: Guaranteed (+/-) 0.5% (STC condition)
 Warranties: +30 year limited product warranty, +10 year manufacturer warranty on LIDC at the nominal performance, +20 year manufacturer power output warranty

Linear Performance Warranty

First Year: $\geq 98.5\%$ 2.30 Year: $\geq 0.25\%$ 30 Year: $\geq 91.25\%$

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 RCM-xxx-RDBHM (xxx=475-710)

Electrical Characteristics

Series Glass	475	480	485	490	495	500	705	710
Testing Condition	STC	STC	STC	STC	STC	STC	STC	STC
Maximum Power	475	480	485	490	495	500	705	710
Maximum Power Voltage	42.25	42.25	42.25	42.25	42.25	42.25	42.25	42.25
Maximum Power Current	11.20	11.20	11.20	11.20	11.20	11.20	11.20	11.20
Open Circuit Voltage	48.26	48.26	48.26	48.26	48.26	48.26	48.26	48.26
Short Circuit Current	14.41	14.41	14.41	14.41	14.41	14.41	14.41	14.41
Module Efficiency	21.73	21.81	22.05	22.21	22.37	22.53	22.78	22.88
Maximum System Voltage	1000 VDC							

Mechanical Data

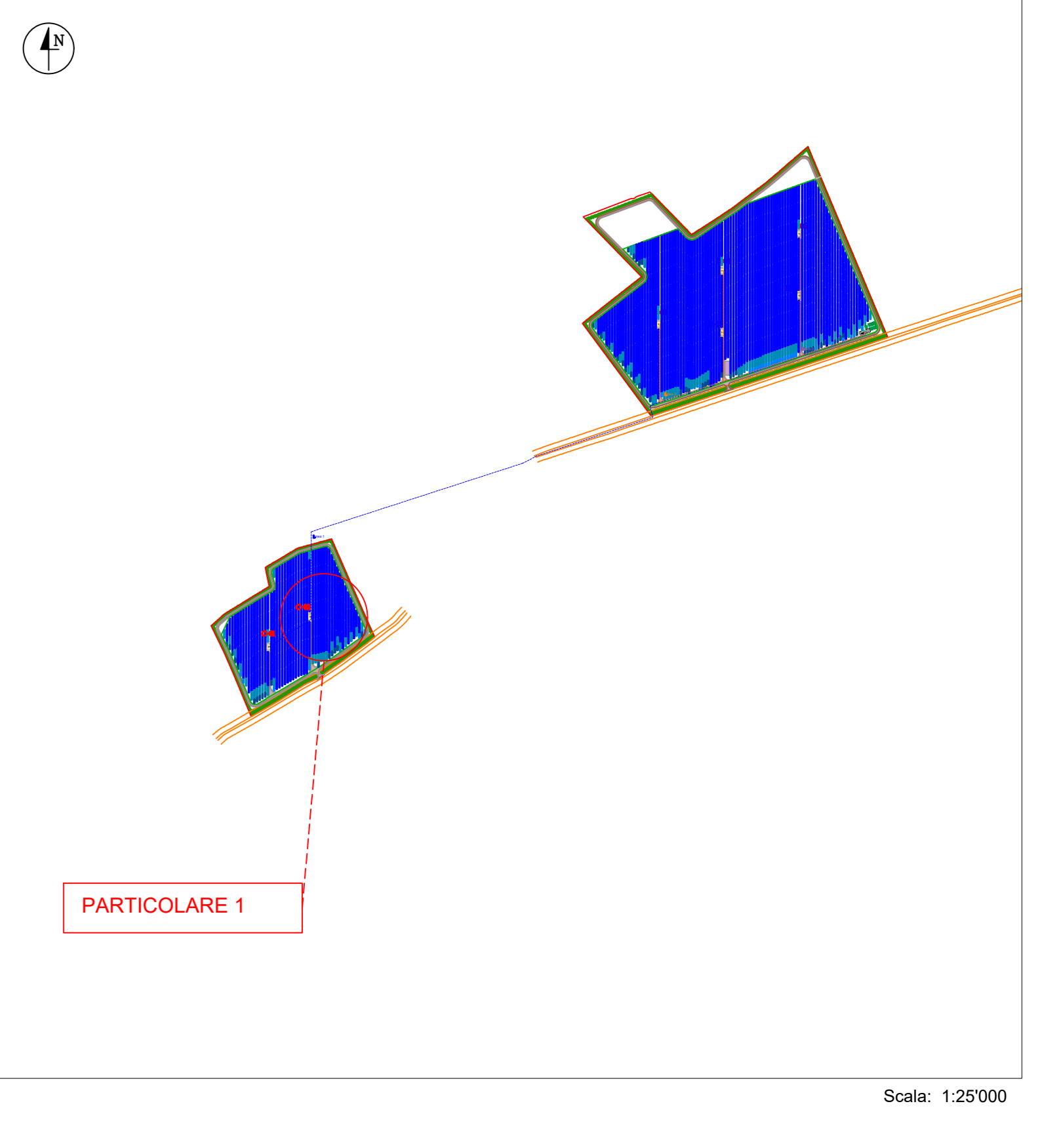
Dimensions: 2384 mm x 1303 mm x 35 mm
 Weight: 35.7 kg
 Cell Type: 181.5 (202mm) x 181.5mm (2 x 4.4) P18 - L12
 Front Glass: 2.5 mm Tempered and low iron glass - A++
 Rear Side: 2.5 mm Tempered and low iron glass
 Frame: Anodized Aluminium Alloy
 Junction Box: IP68, 3 bypass diodes
 Connector: Genus MC4 Ecol or MC4 compatible
 Output cable: 4-core, Length: 300mm or as requested

Temperature Characteristics

Power Temperature Coefficient: -0.26% / °C
 Voc Temperature Coefficient: -0.22% / °C
 Isc Temperature Coefficient: +0.02% / °C
 Operating Temperature: -40 ~ +85 °C
 Nominal Operating Module Temperature (NOCT): 42 ± 2 °C

Packing Configuration

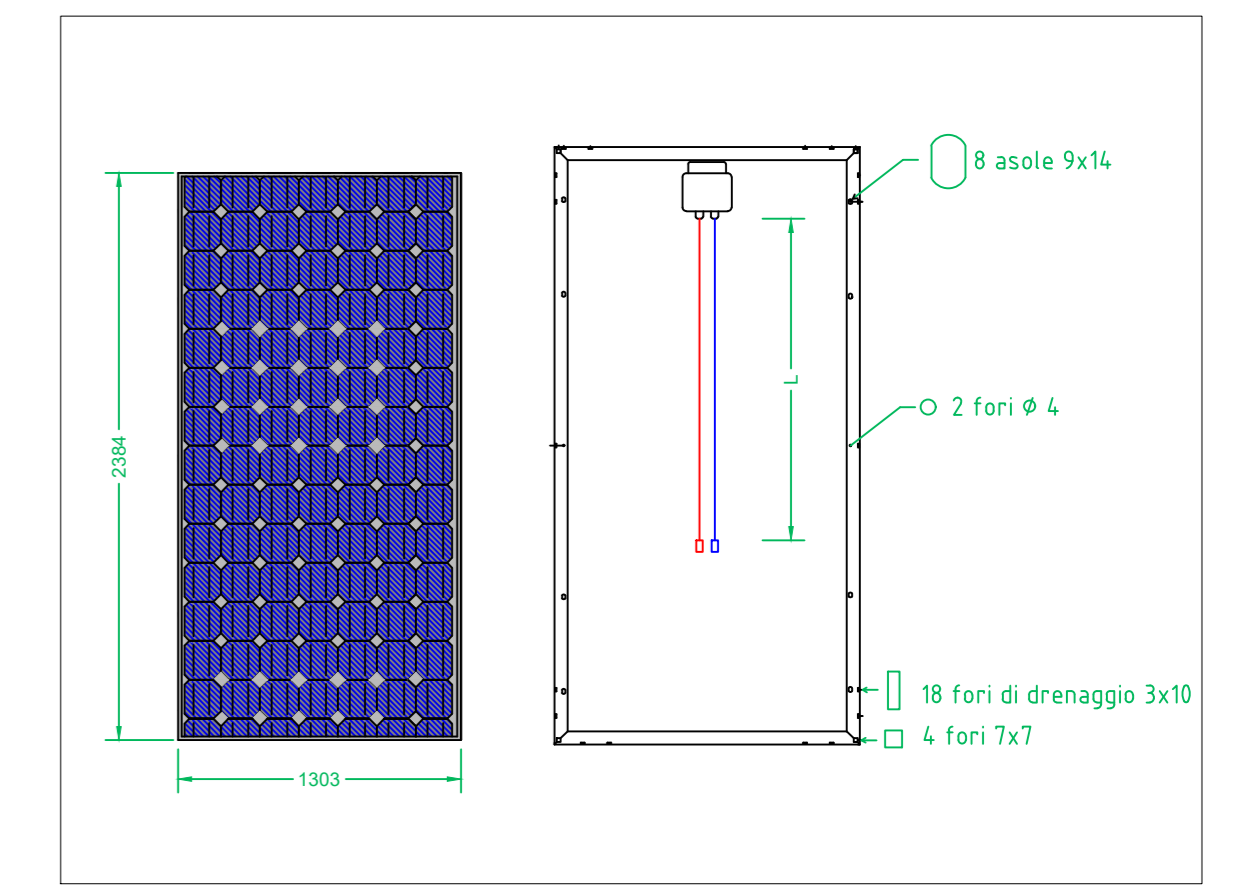
Container: 40 HC
 Pieces per Unit: 21
 Pieces per Container: 18
 Pieces per Container: (31 + 31) x 18 pcs



PARTICOLARE 1

Scala: 1:25000

PANNELLO FOTOVOLTAICO UTILIZZATO



Marca:	RECOM
Modello:	RCM-710-RDBHM
Tipologia Costruttiva:	HJT Bifacial - 132 cells
DATI TECNICI:	
Potenza Pannello FV:	Pp = 710 [Wp]
Tensione:	Voc = 49.30 [V]
Corrente:	Isc = 17.47 [A]
Tensione nominale:	Vmppt = 43.53 [V]
Corrente nominale:	Imppt = 16.34 [A]
Efficienza:	22.85 [%]
Dimensioni:	2384 x 1303 x 35 mm
Numero di pannelli FV per stringa:	26
Potenza Stringa:	18'460 W
Tensione di stringa:	1'131.78 V
Corrente di Stringa:	16.34 A
Tensione a vuoto (Voc):	1'281.80 V

CODIFICA ELEMENTI DELL'IMPIANTO FOTOVOLTAICO (NOMENCLATURA CABLAGGIO STRINGHE)

Cxx-lyy-Szz

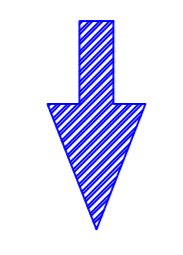
> Cxx : CABINA: xx (xx = 1...20)
 > lyy : INVERTER: yy (yy = 1...17)
 > Szz : STRINGA: ww (yy = 1...11 / 12 / 14)

ESEMPIO PER CABINA C01
 Inverter 02, Stringa 09 a 10 su Struttura 1028

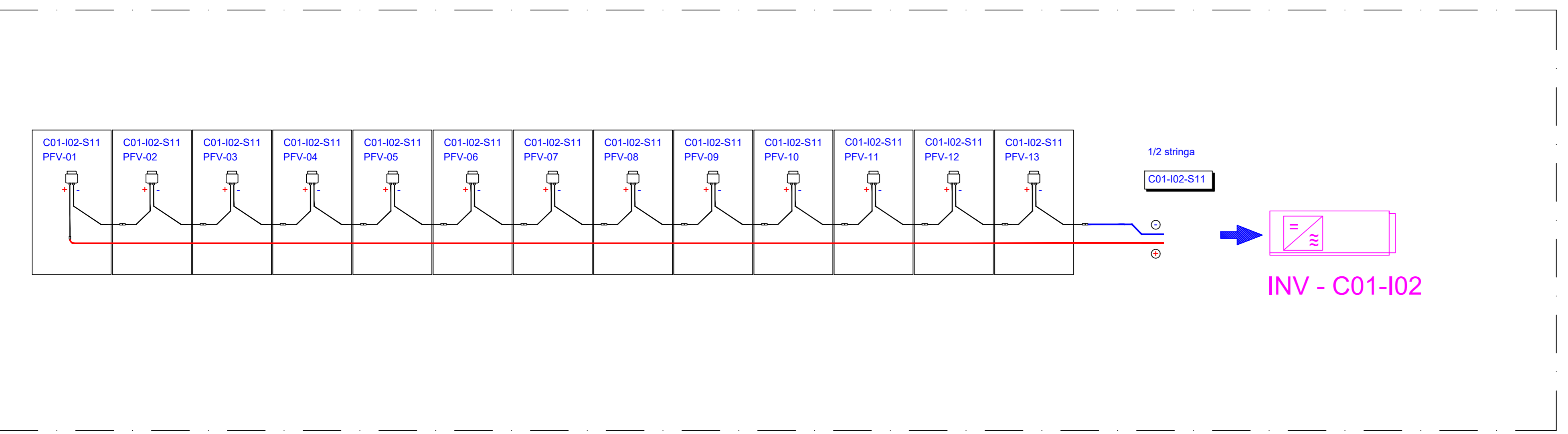
C01-I02-S09 C18-I02-S10

Inverter 02, Stringa 11 su Struttura 1113

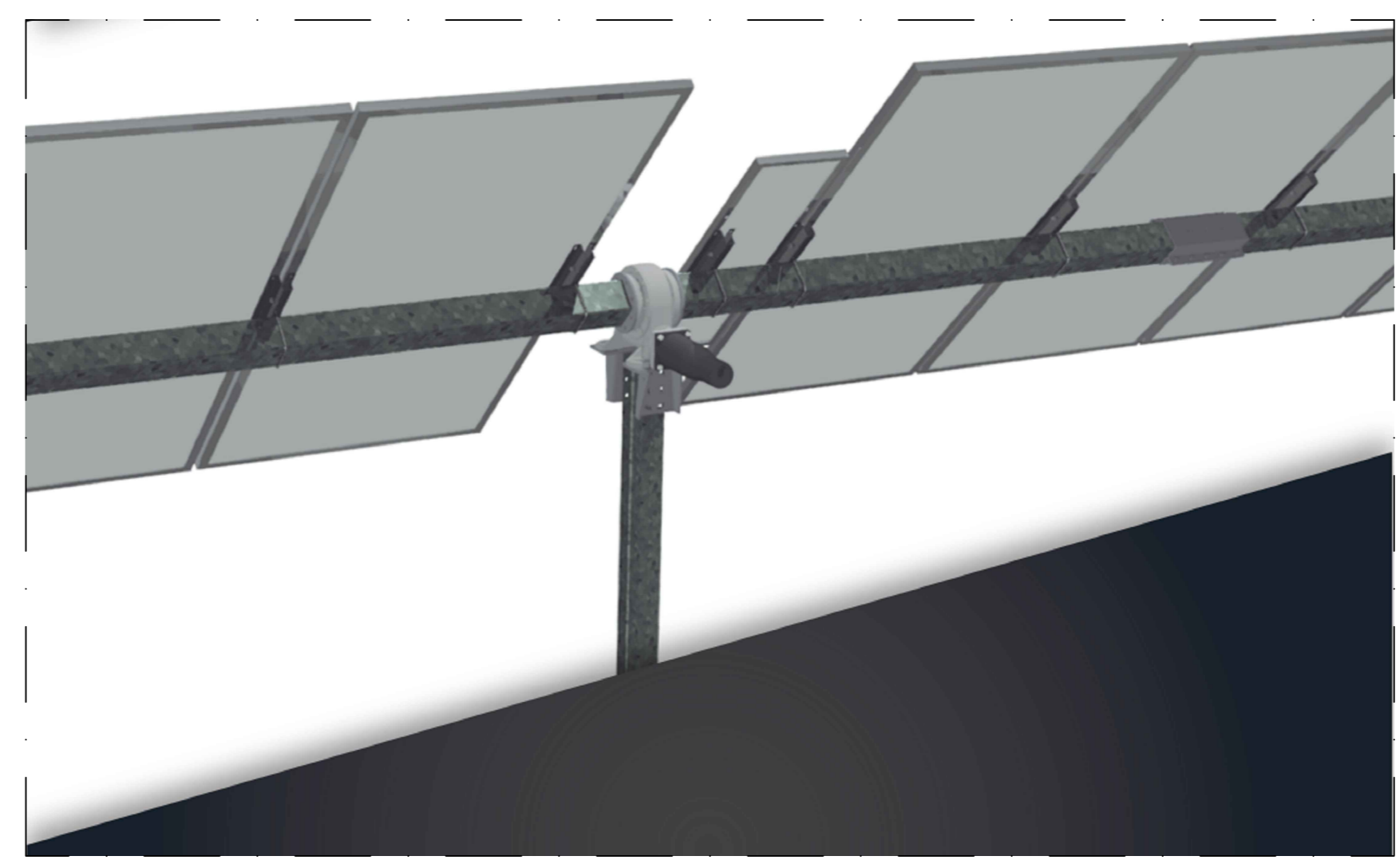
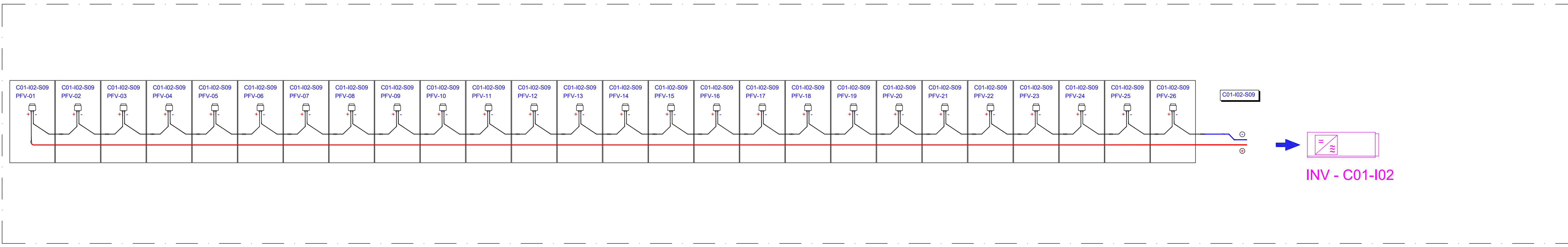
C01-I02-S11



PARTICOLARE 2: COLLEGAMENTO MEZZA STRINGA SU STRUTTURA 1X13P



PARTICOLARE 2: COLLEGAMENTO STRINGHE SU STRUTTURA 1X26P



**REGIONE AUTONOMA DELLA SARDEGNA
 COMUNE DI DECIMOPUTZU
 Provincia del Sud Sardegna (SU)**

PROGETTO DEFINITIVO PER LA REALIZZAZIONE DI UN IMPIANTO AGROVOLTAICO DENOMINATO DECIMOPUTZU
 Loc. "Mitza Cannu" e "Coddu Serra Gureu", Decimoputzu (SU) - 08020, Sardegna, Italia
 Potenza Nominale: Impianto FV 18'589,22 kWp -- Sistema di accumulo 8'250,00 kW

Committente - Sviluppo progetto FV:
 Apollo Decimoputzu S.r.l.
 Viale della Stazione n. 7 - 09100 Bortolan (BZ)
 P.IVA 03168500217, PEC: apollodecimoputzu@legalmail.it

Gruppo di lavoro - VIA (La SIA S.p.A.)
 Riccardo Saconi - Ingegnere Civile
 Antonio Dodoni - Ingegnere Idraulico
 Alberto Mossa - Archeologo
 Simone Mancioni - Geologo
 Francesco Paolo Pinchera - Biologo

Progettazione Agronomica (La SIA S.p.A.)
 Agr. Franco Milto - Agronomo
 Agr. Rita Bosi - Agronomo
 Agr. Stefano Azzoni - Agronomo

Coordinamento Progettisti
 Inova Service S.r.l.
 Via Santa Margherita n. 4 - 09124 Cagliari (CA)
 P.IVA 0337940921, PEC: inovaserviceca@pec.it

Progettazione Elettrica
 Ing. Silvio Matta - Ing. Elettrico

Coordinamento gruppo di lavoro VIA
 La SIA S.p.A.
 Viale Luigi Schiavonetti n. 286 - Roma (RM)
 P.IVA 08207411003, PEC: direzione.lasia@pec.it

Elaborato

PARTICOLARI COSTRUTTIVI PANNELLI FOTOVOLTAICI

Codice elaborato	Scala	Formato		
TAV_PART_01-FVT	1:500 varie	A0		
REV.	DATA	ESEGUITO	VERIFICATO	APPROVATO
R00	Gennaio 2024			
Note				