

recom

BIFACIAL, HIT MONO CRYSTALLINE HALF CUT MODULE - DOUBLE GLASS
475 / 600 / 685 / 690 / 700 / 705 / 710 Wm

Lion Series

TIER 1

Overview

Hetero Junction (HJT) photovoltaic module is a ground breaking 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 the time and a fast turnaround on their investments.

Key Benefits

- Anti-PID & LD Technology
- Higher yield per surface area
- Low LEDE
- 30 Years Limited Product Warranty
- Low Temp. $+4.53\%$ / °C
- Higher Light Conversion
- Guaranteed mechanical resistance to severe weather conditions
- Positive tolerance
- 100% electrical interconnectivity tested

Tests, Certifications and Warranties

Standard Tests: IEC 61215, IEC 61730
 Heavy Metal Tests: IEC 61851-1, IEC 61851-2
 Certifications: Conformer to CE, PV-CIS2
 Fire safety Class: A2-slab0, B2-s1, B2-s2
 Insurance: Third party liability insurance provided by Liberty Mutual
 Wind and Snow Loads: Module certified to withstand extreme wind (3400 Pascal) and snow loads (5400 Pascal)
 Withstanding Test: Maximum temperature $+75$ °C with impact speed of 12 m/s
 Power Tolerance: Guaranteed $\pm 0.5\%$ (S.C. condition)
 Warranties: ≥ 30 year limited product warranty
 ≥ 15 year manufacturer warranty on PUE of the components
 ≥ 30 year transferable linear power output warranty

Linear Performance Warranty

First Year Output $\ge 98.5\%$ 2-30 Year Decline $\le 0.25\%$ 30 Year Output $\ge 91.25\%$

Electrical Characteristics

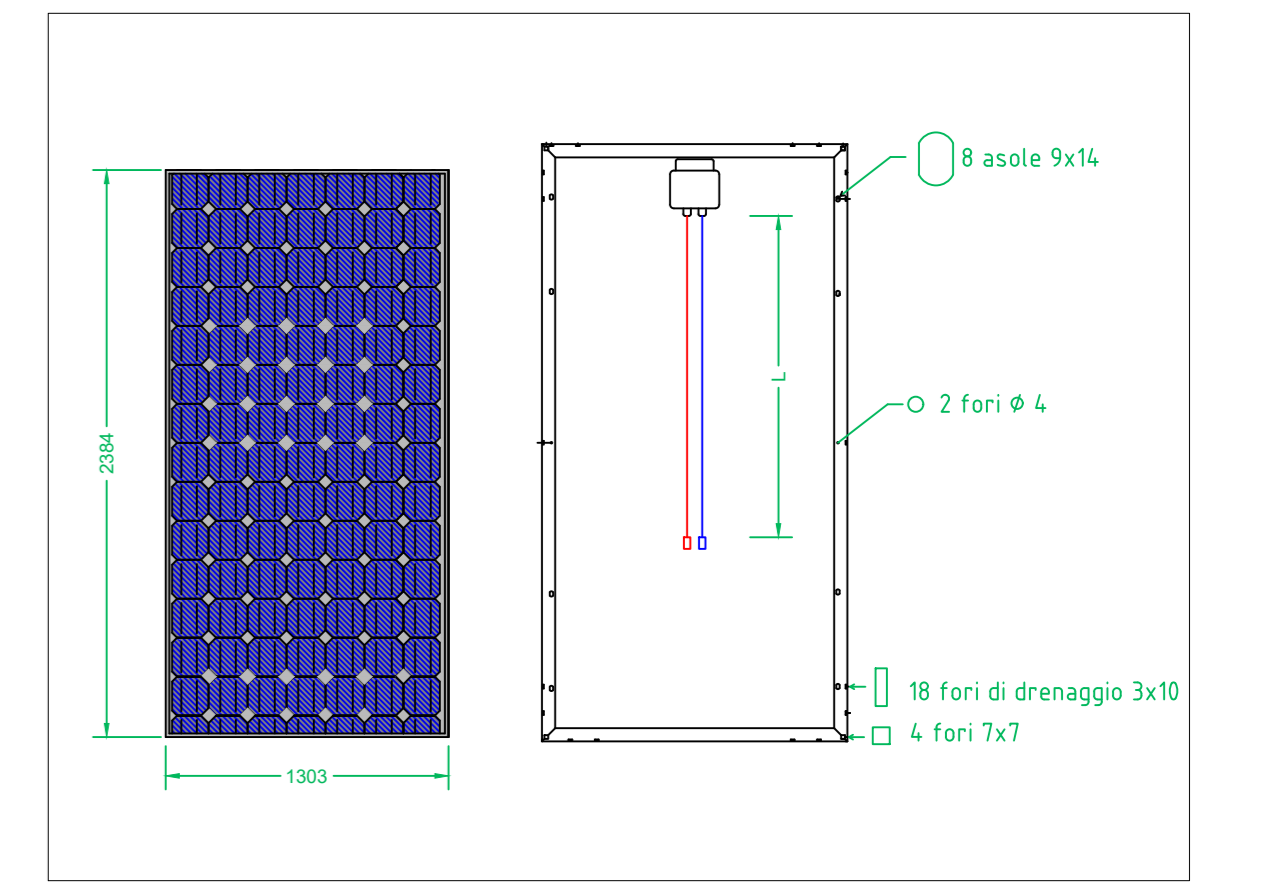
	475	600	685	690	700	705	710
POWER CLASS	475	600	685	690	700	705	710
Module Power	475	600	685	690	700	705	710
Maximum Power	475	600	685	690	700	705	710
Maximum Power Voltage	475	600	685	690	700	705	710
Maximum Power Current	475	600	685	690	700	705	710
Open Circuit Voltage	475	600	685	690	700	705	710
Short Circuit Current	475	600	685	690	700	705	710
Module Efficiency	475	600	685	690	700	705	710
Maximum Series Voltage	36	36	36	36	36	36	36
Maximum System Voltage	1500	1500	1500	1500	1500	1500	1500

Mechanical Data

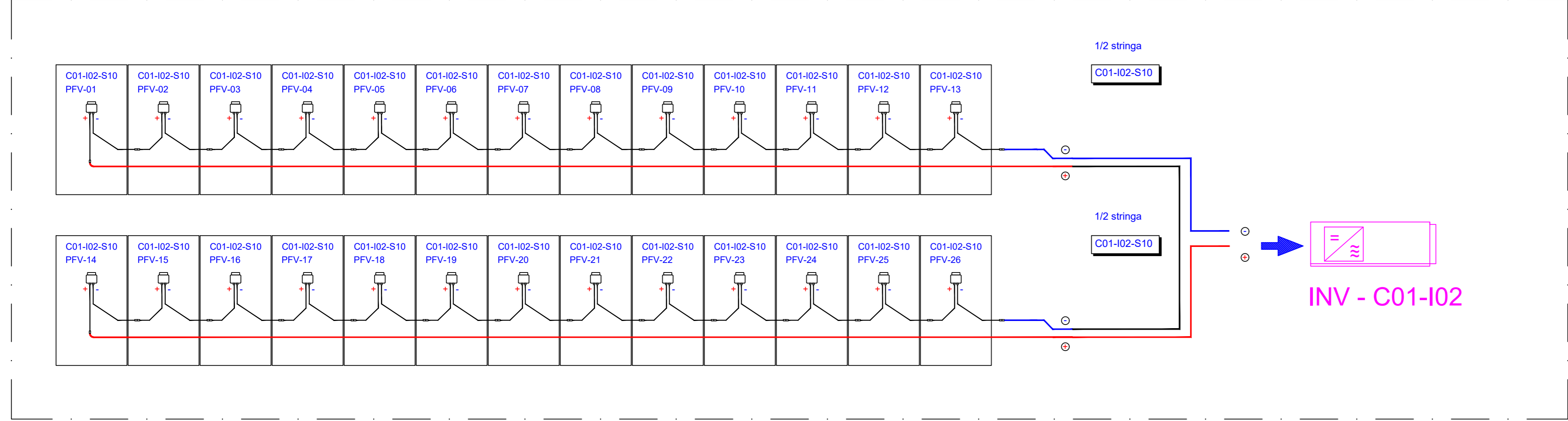
Dimensions: 2384 mm x 1303 mm x 35 mm
 Weight: 38.5 kg
 Cell Type: HIT-20lines x 105mm x 468 Pcell-612
 Front Glass: 2.0mm Tempered and low iron glass - 4HC
 Rear Side: 2.0mm Tempered and low iron glass
 Frame: Anodized Aluminum Alloy
 Junction Box: IP68 (Optional: IP67)
 Connector: Genuine MCA (Evo2) or MCA compatible
 Output cable: 3-core - Length = 300mm or customized

Temperature Characteristics

Temperature Coefficient: -0.261 / °C
 V_{oc} Temperature Coefficient: -0.274 / °C
 I_{sc} Temperature Coefficient: +0.0675 / °C
 Operating Temperature: -40 ~ +85 °C
 Normal Operating Module Temperature (NOMT): 52 ~ 62 °C



Marca:	RECOM
Modello:	RCM-710-8DBHM
Tipologia Costruttiva:	HIT Bifacial - 132 cells
DATI TECNICI:	
Potenza Pannello FV:	P _p = 710 [Wp]
Tensione Corrente:	V _{oc} = 49.30 [V] I _{sc} = 17.47 [A]
Corrente nominale:	V _{mppt} = 43.53 [V] I _{mppt} = 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)

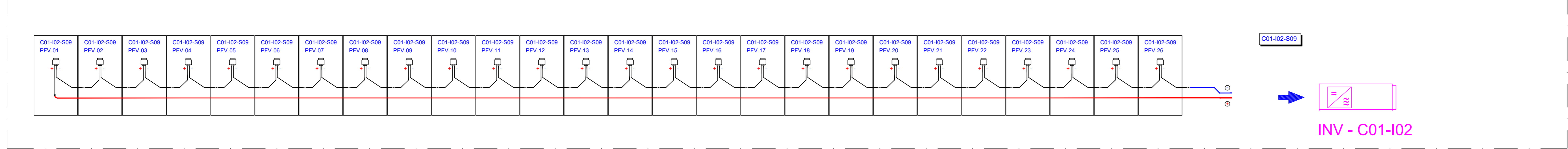
Cxx-yy-zzz

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

ESEMPIO PER CABINA C-01
 Inverter 02, Stringhe 09 e 10 su Struttura 1026

Inverter 02, Stringa 11 su Struttura 1013

C01-I02-S09 C01-I02-S10
 C01-I02-S11



REGIONE AUTONOMA DELLA SARDEGNA
 COMUNI DI VILLASOR E DECIMOPUTZU
 Provincia del Sud Sardegna (SU)

PROGETTO DEFINITIVO PER LA REALIZZAZIONE DI UN IMPIANTO AGROVOLTAICO AVANZATO DENOMINATO VILLASOR-Z
 Loc. "Sartu Is Coccus" 09034 Villasor (SU) e Loc. Mitza Cannas 09010 Decimoputzu (SU) - Sardegna, Italia
 Potenza Nominale: Impianto FV 62'080,98 kWp

<p>Committente - Sviluppo progetto FV: Apollo Villasor S.r.l. Viale delle Stazioni n. 7 - 39100 Bolzano (BZ) P.IVA 03167130214, PEC: apollovillasor@pecimpres.it</p>	<p>Gruppo di lavoro - VIA (La SIA S.p.A.) Riccardo Saconi - Ingegnere Civile Antonio Deodari - Ingegnere Idraulico Giulio Alberto Acca - Architetto Maria Camba - Geologo Francesco Paolo Pinchera - Biologo</p>
<p>Coordinamento Progettisti Innova Service S.r.l. Via Santa Margherita n. 4 - 09124 Cagliari (CA) P.IVA 03379490921, PEC: innovaserviceca@pec.it</p>	<p>Progettazione Agronomica (La SIA S.p.A.) Agr. Stefano Atzeni - Agronomo Agr. Franco Millo - Agronomo</p> <p>Progettazione Elettrica Ing. Silvio Matta - Ing. Elettrico</p>
<p>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</p>	

Elaborato

PARTICOLARI COSTRUTTIVI PANNELLI FOTOVOLTAICI

Codice elaborato TAV_PART_01-FVT	Scala 1:10'000 1:500 varie	Formato A0	
REV. DATA R00 Maggio 2024	ESEGUITO Ing. Silvio Matta - Ing. Elettrico	VERIFICATO Innova Service S.r.l.	APPROVATO Apollo Villasor S.r.l.
Note			