



## Comune di Montalto di Castro (VT)

PROGETTO:

### " MONTALTO MANDRIA SOLARE "

Progetto per la realizzazione di un impianto fotovoltaico a terra della potenza di circa 12 MW connesso alla rete MT di E-Distribuzione

**Procedimento Autorizzatorio Unico Regionale**

ai sensi del combinato disposto dell'art. 27 bis del D.lgs 152/2006 e s.m.i. e D.M. 52/2015

TITOLO ELABORATO:

### DETTAGLI STRUTTURE E MODULI FOTOVOLTAICI

TAVOLA:	LAYOUT:	DENOMINAZIONE FILE:	SCALA:
T08		strutture_MdCMandriaSolare_A03.dwg	

COMMITTENTE:

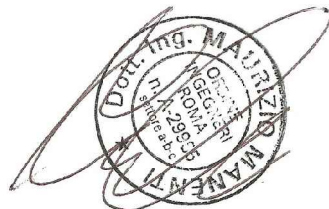
**SF Ele I S.r.l.**

REV.	DATA	DESCRIZIONE	REDATTO	CONTROLLATO	APPROVATO
01.	Feb/23				
02.					
03.					
04.					
				VISTI E APPROVAZIONI	

PROGETTISTA INCARICATO

ING. MAURIZIO MANENTI

FIRMA del PROGETTISTA



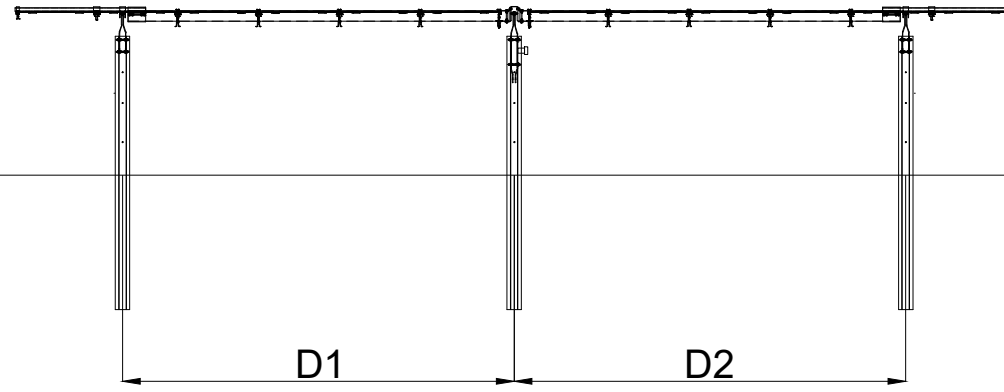
**SF Ele I S.r.l.**

P.IVA 02403350560

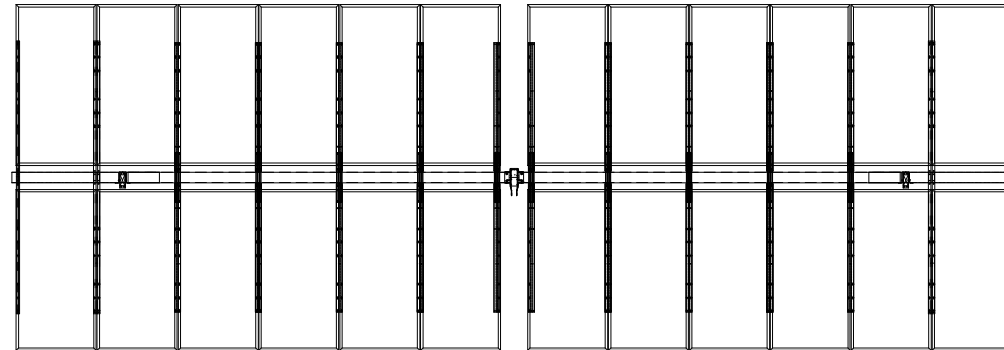
Via Cantorriovo 44/C 01021

[sfele1@pec.it](mailto:sfele1@pec.it)

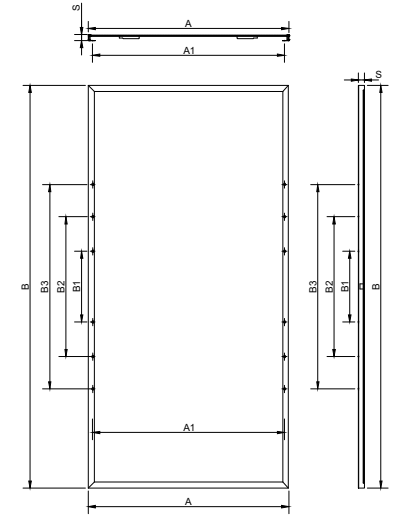
TRJHT24PDP-BF\_FRONT VIEW @ 0°



TRJHT24PDP-BF\_TOP VIEW @ 0°



PHOTOVOLTAIC MODULE

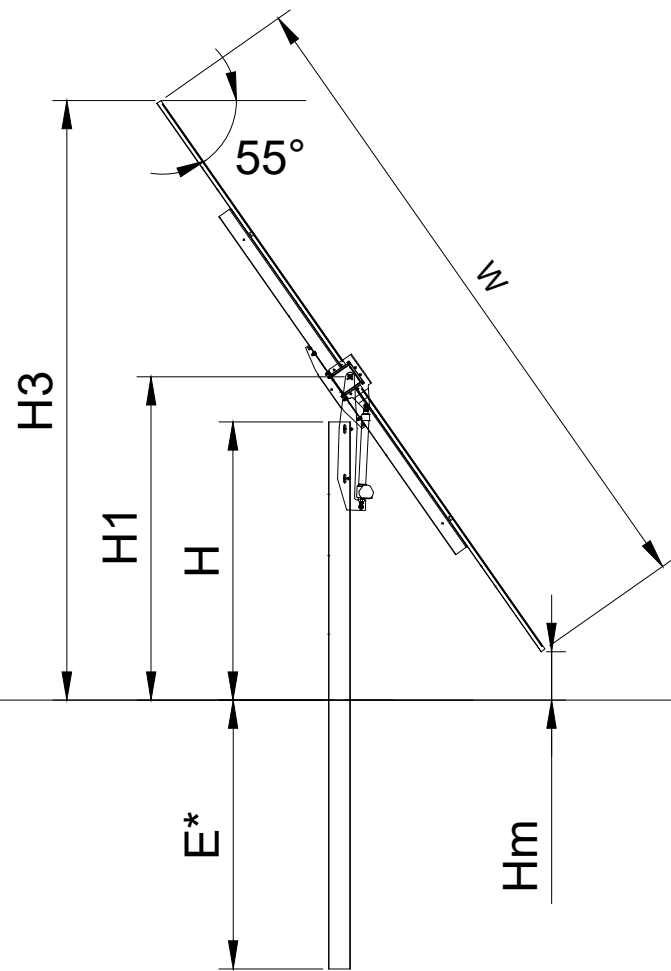


APPROXIMATE DIMENSIONS [mm]

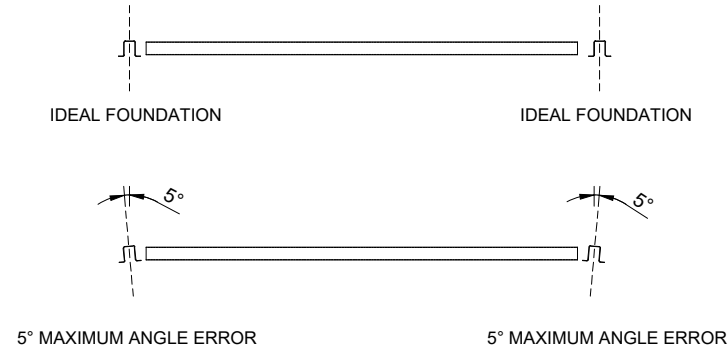
A	1303	H	2155
A1	1262	H1	2475
A2	-	H2	2505
B	2384	H3	4551
B1	400	Hm	400
B2	790	W	5068
B3	1400	D1	7000
S	35	D2	7000
C	17500	-	-
E*	1800	-	-

\*Check with POT and Geotechnical Report

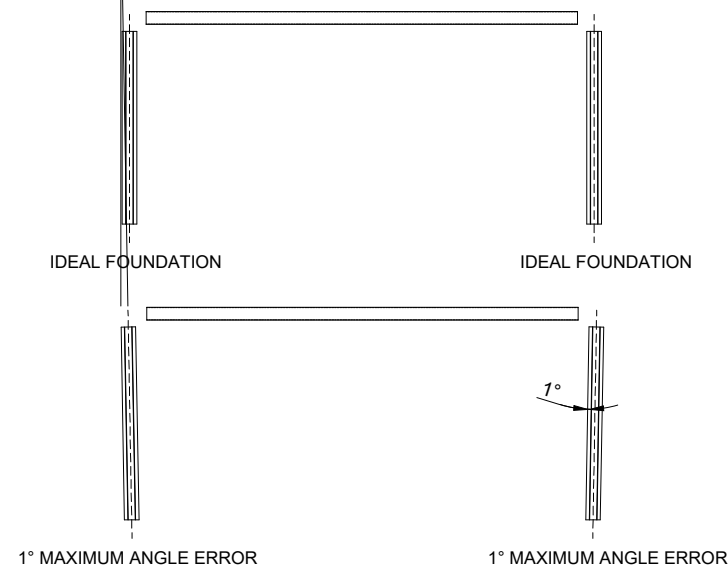
TRJHT24PDP-BF  
SIDE VIEW @ 55°



FOUNDATION TWIST ERROR RECOVERY

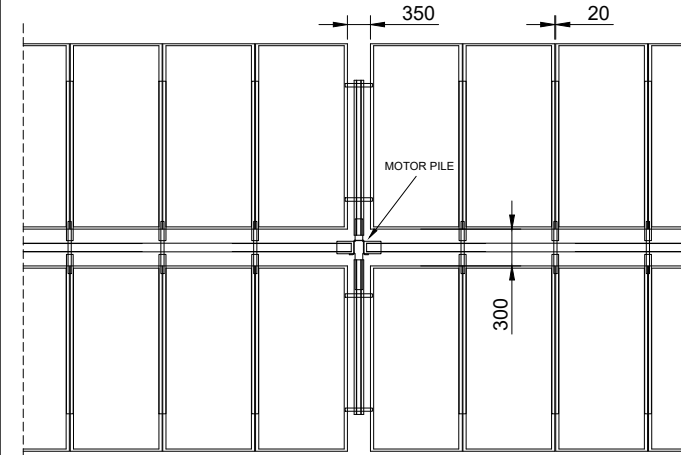


FOUNDATION ANGLE ERROR RECOVERY



PRELIMINARY PV TABLES SPACING

NOMINAL VALUE - IT MAY CHANGE DUE TO MOUNTING TOLERANCES



MATERIAL CHARACTERISTICS

STEEL

Structural weathering steel - yield strength and thickness in accordance with structural calculations.

SPHERICAL BEARINGS

Bronze / Stainless steel.

SPACERS

Stainless Steel.

SCREWS, NUTS and WASHERS

All steel parts will be galvanized according to environmental conditions of the site to have a design lifetime of 25 years

GALVANIZATION

Basic Option:

All steel parts will be galvanized according to environmental conditions of the site to have a design lifetime of 25 years

CONVERT ITALIA SpA

PROJECT DESCRIPTION  
**TRJHT24PDP-BF**

CLIENT

STATE PROJECT  
**Preliminary Drawing**

REPRESENTATION  
**Annex 1  
General Assembly Drawing**

PRECEDENCE DRAWING	NUMBER PROJECT	DATE EMISSION	FORMAT DRAWING
		SCALE	SCALE DWG

REV.	DATE	DESCRIPTION	DESIGNED	CHECKED	APPROVED

DESIGN

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# TOPBiHiKu7

N-type TOPCon Bifacial 210 Cell Modules

Module power  
up to

**695W**

Module efficiency  
up to

**22.4%**

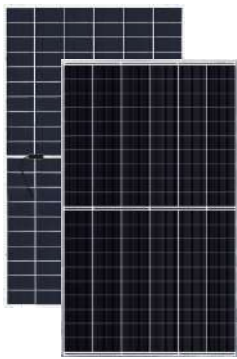
1st year power  
degradation  $\leq$

**1%**

Power performance  
warranty

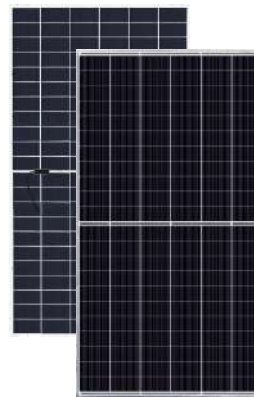
**30 Years**

## Canadian Solar TOPCon Bifacial 210 Cell Modules



**615~635W**

Bifacial CS7L-TB-AG  
2172 × 1303 × 33 mm



**675~695W**

Bifacial CS7N-TB-AG  
2384 × 1303 × 33 mm

### FEATURES



#### Higher Power

Module power up to 695W  
Module efficiency up to 22.4%



#### Less Degradation

No Boron-oxygen LID (Light Induced Degradation)  
Anti PID (Potential Induced Degradation)



#### Lower Temperature Coefficient

Lower temperature coefficient (Pmax): -0.30%/°C  
Increase energy yield in hot climate



#### 18BB Cell Technology

Minimize micro-crack impacts  
Reduce resistance loss, and improve current collection



#### Enhanced Mechanical Loads

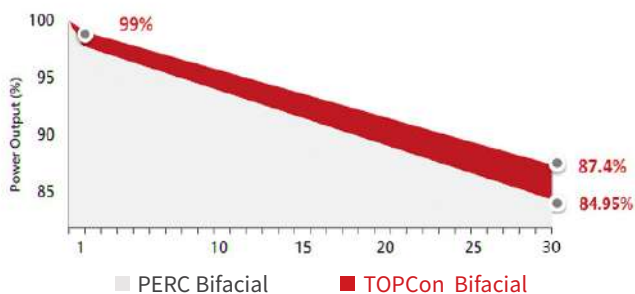
Snow load up to 5,400Pa  
Wind load up to 2,400Pa



#### High Investment IRR

More energy yield  
Less BOS and lower LCOE

### MODULE WARRANTY



12 years\*

Enhanced product warranty on materials and workmanship

30 years\*

Linear power performance warranty

\*1st year power degradation no more than 1%  
subsequent annual power degradation no more than 0.4%

### MANAGEMENT SYSTEM CERTIFICATES

ISO 9001:2015  
Quality management system

ISO 14001:2015  
Standards for environmental management system

ISO 45001: 2018  
International standards for occupational health & safety

IEC 62941: 2019  
Quality system for PV module manufacturing

### PRODUCT CERTIFICATES

IEC 61215 / IEC 61730 / CE / INMETRO / MCS / UKCA / CGC  
UL 61730 / IEC 61701 / IEC 62716 / IEC 60068-2-68  
Take-e-way

