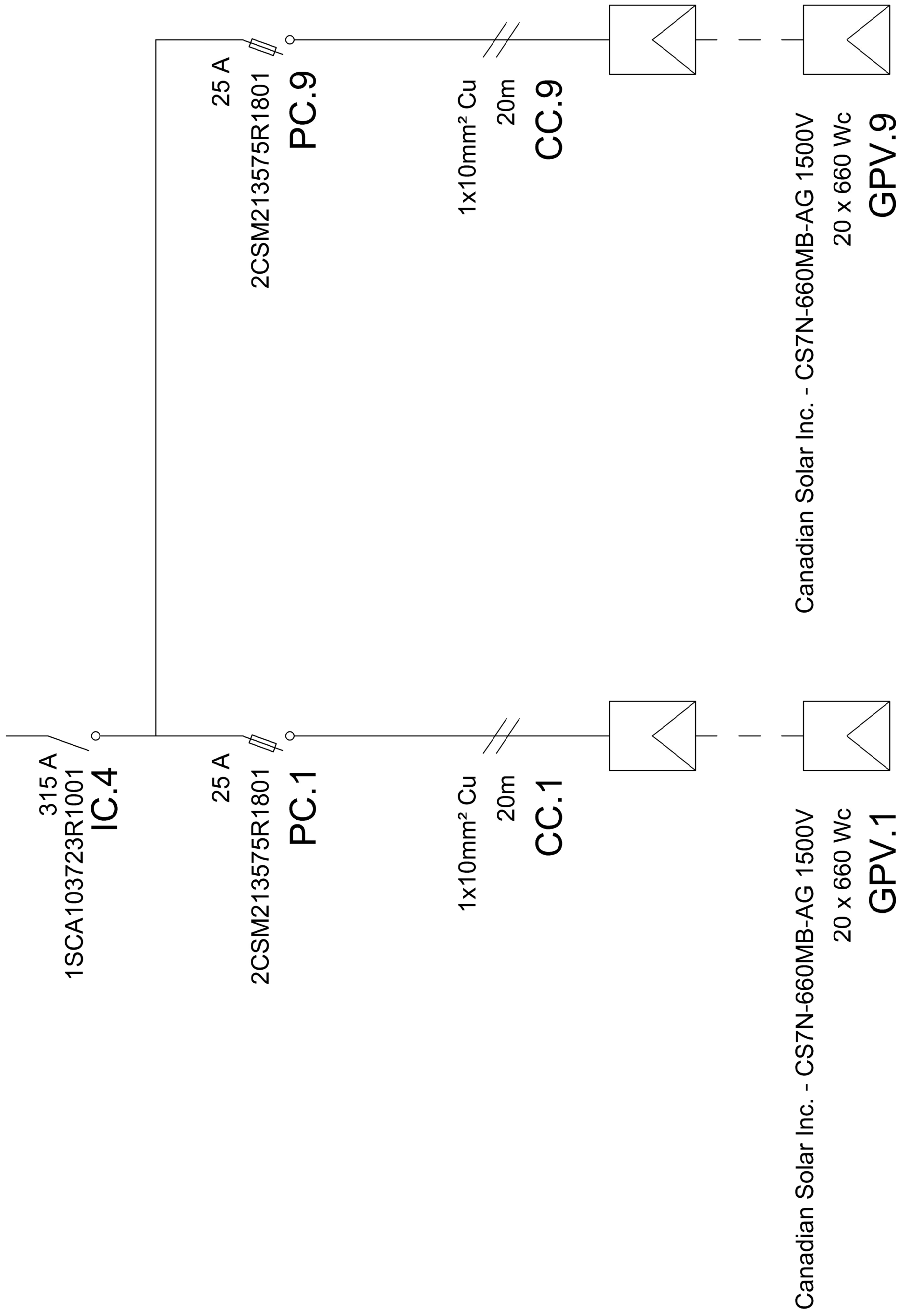


# SCHEMA FUNZIONALE PANNELLI



## ELECTRICAL DATA | STC\*

	Nominal Max. Power (Pmax)	Opt. Operating Voltage (Vmp)	Opt. Operating Current (Imp)	Open Circuit Voltage (Voc)	Short Circuit Current (Isc)	Module Efficiency
CS7N-635MB-AG	635 W	37.3 V	17.03 A	44.4 V	18.27 A	20.4%
Bifacial Gain**	5% 10% 20%	37.3 V 37.3 V 37.3 V	17.89 A 18.74 A 20.44 A	44.4 V 44.4 V 44.4 V	19.18 A 20.10 A 21.92 A	21.5% 22.5% 24.5%
CS7N-640MB-AG	640 W	37.5 V	17.07 A	44.6 V	18.31 A	20.6%
Bifacial Gain**	5% 10% 20%	37.5 V 37.5 V 37.5 V	17.92 A 18.78 A 20.48 A	44.6 V 44.6 V 44.6 V	19.23 A 20.14 A 21.97 A	21.6% 22.7% 24.7%
CS7N-645MB-AG	645 W	37.7 V	17.11 A	44.8 V	18.35 A	20.8%
Bifacial Gain**	5% 10% 20%	37.7 V 37.7 V 37.7 V	17.97 A 18.84 A 20.53 A	44.8 V 44.8 V 44.8 V	19.27 A 20.19 A 22.02 A	21.8% 22.9% 24.9%
CS7N-650MB-AG	650 W	37.9 V	17.16 A	45.0 V	18.39 A	20.9%
Bifacial Gain**	5% 10% 20%	37.9 V 37.9 V 37.9 V	18.03 A 18.88 A 20.59 A	45.0 V 45.0 V 45.0 V	19.31 A 20.23 A 22.07 A	22.0% 23.0% 25.1%
CS7N-655MB-AG	655 W	38.1 V	17.20 A	45.2 V	18.43 A	21.1%
Bifacial Gain**	5% 10% 20%	38.1 V 38.1 V 38.1 V	18.06 A 18.93 A 20.64 A	45.2 V 45.2 V 45.2 V	19.35 A 20.27 A 22.12 A	22.1% 23.2% 25.3%
CS7N-660MB-AG	660 W	38.3 V	17.24 A	45.4 V	18.47 A	21.2%
Bifacial Gain**	5% 10% 20%	38.3 V 38.3 V 38.3 V	18.10 A 18.96 A 20.69 A	45.4 V 45.4 V 45.4 V	19.39 A 20.32 A 22.16 A	22.3% 23.4% 25.5%

\* Under Standard Test Conditions (STC) of irradiance of 1000 W/m<sup>2</sup>, spectrum AM 1.5 and cell temperature of 25°C.  
 \*\* Bifacial Gain: The additional gain from the back side compared to the power of the front side at the standard test condition. It depends on mounting (structure, height, tilt angle etc.) and albedo of the ground.

## ELECTRICAL DATA

Operating Temperature	-40°C ~ +85°C
Max. System Voltage	1500 V (IEC/JUL) or 1000 V (IEC/JUL)
Module Fire Performance	TYPE 29 (UL 61730) or CLASS C (IEC61730)
Max. Series Fuse Rating	35 A
Application Classification	Class A
Power Tolerance	0 ~ +10 W
Power Bifaciality*	70 %

\* Power Bifaciality = Pmax<sub>rear</sub> / Pmax<sub>front</sub> both Pmax<sub>rear</sub> and Pmax<sub>front</sub> are tested under STC. Bifaciality Tolerance: ± 5 %

## ELECTRICAL DATA | NMOT\*

	Nominal Max. Power (Pmax)	Opt. Operating Voltage (Vmp)	Opt. Operating Current (Imp)	Open Circuit Voltage (Voc)	Short Circuit Current (Isc)
CS7N-635MB-AG	476 W	35.0 V	13.61 A	42.0 V	14.73 A
CS7N-640MB-AG	480 W	35.2 V	13.64 A	42.2 V	14.77 A
CS7N-645MB-AG	484 W	35.3 V	13.72 A	42.3 V	14.80 A
CS7N-650MB-AG	487 W	35.5 V	13.74 A	42.5 V	14.83 A
CS7N-655MB-AG	491 W	35.7 V	13.76 A	42.7 V	14.86 A
CS7N-660MB-AG	495 W	35.9 V	13.79 A	42.9 V	14.89 A

\* Under Nominal Module Operating Temperature (NMOT), irradiance of 800 W/m<sup>2</sup>, spectrum AM 1.5, ambient temperature 20°C, wind speed 1 m/s.

## MECHANICAL DATA

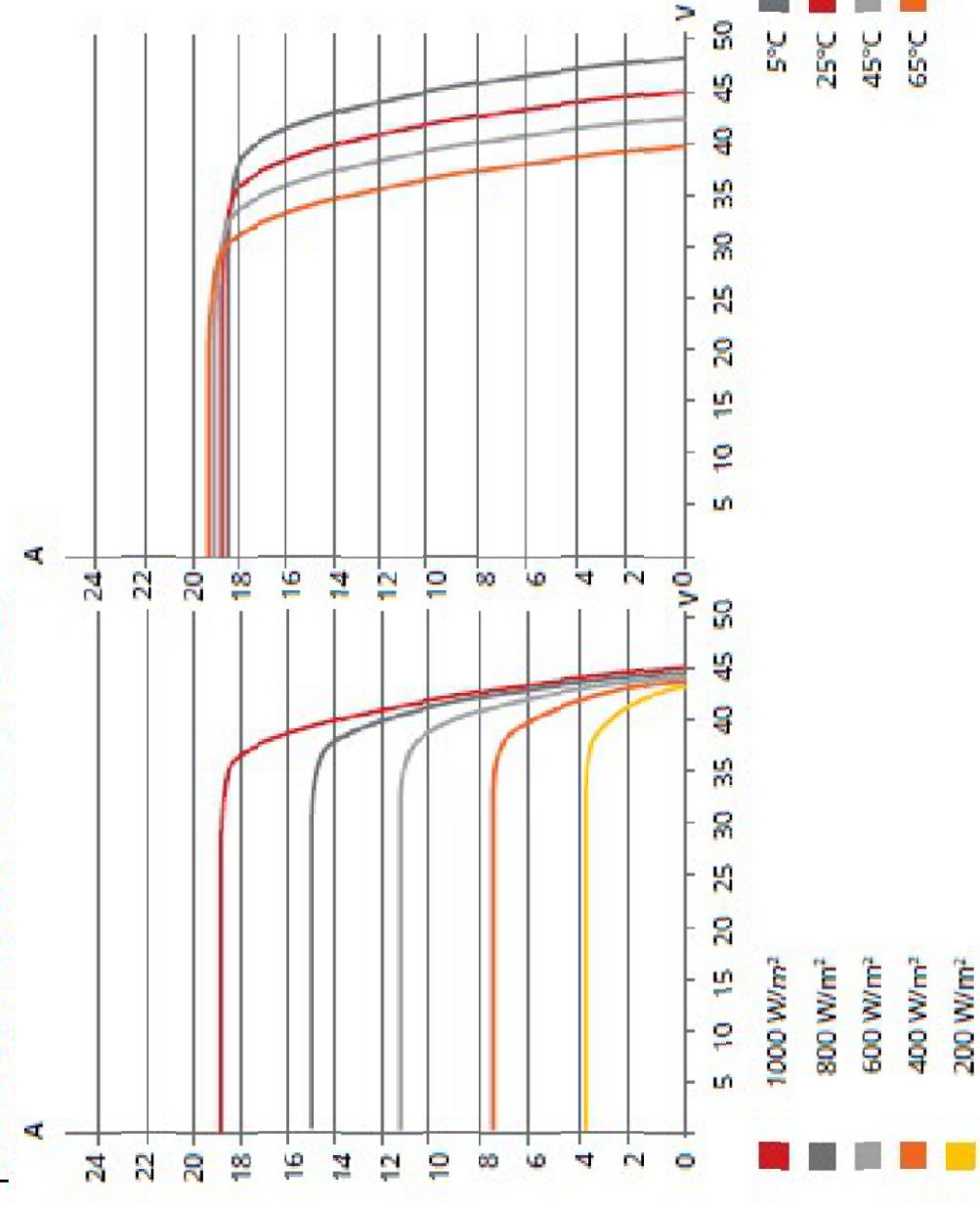
Specification	Data
Cell Type	Mono-crystalline
Cell Arrangement	132 [2 x (11 x 6) ]
Dimensions	2384 x 1303 x 35 mm (93.9 x 51.3 x 1.38 in)
Weight	37.9 kg (83.6 lbs)
Front / Back Glass	2.0 mm heat strengthened glass
Frame	Anodized aluminium alloy
J-Box	IP68, 3 diodes
Cable	4.0 mm <sup>2</sup> (IEC), 10 AWG (UL)
Cable Length (Including Connector)	460 mm (18.1 in) (+) / 340 mm (13.4 in) (-) (supply additional jumper cable: 2 lines / Pallet) or customized length*
Connector	T4 series or MC4-EVO2
Per Pallet	31 pieces

Per Container (40' HQ) 527 pieces or 465 pieces (only for US)  
 \* For detailed information, please contact your local Canadian Solar sales and technical representatives.

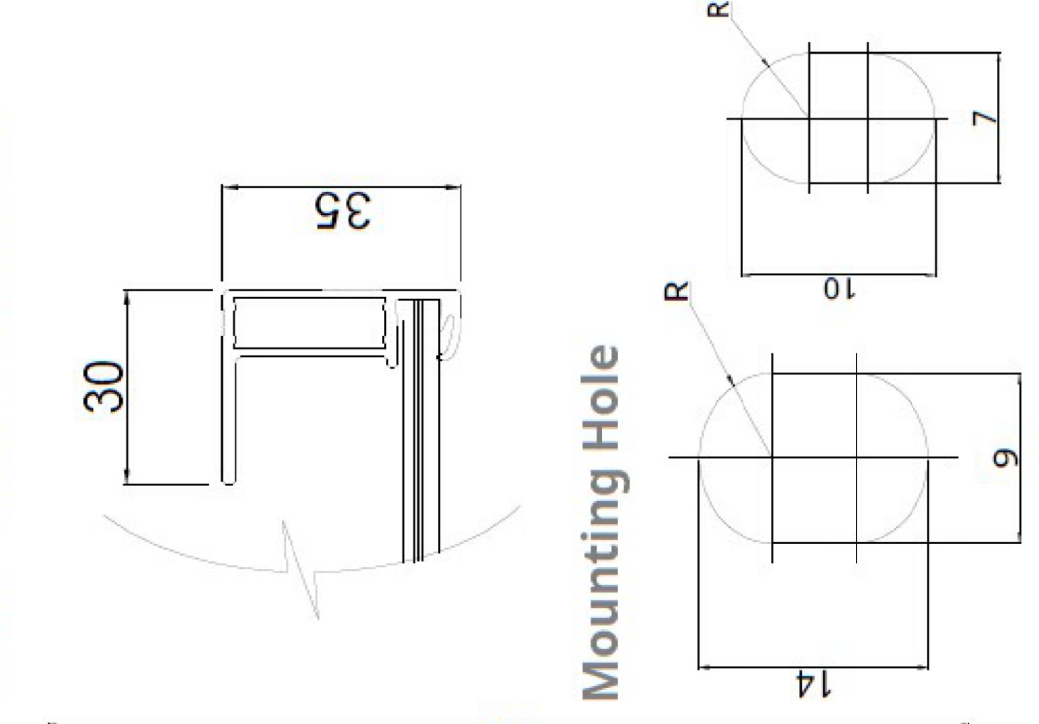
## TEMPERATURE CHARACTERISTICS

Specification	Data
Temperature Coefficient (Pmax)	-0.34 % / °C
Temperature Coefficient (Voc)	-0.26 % / °C
Temperature Coefficient (Isc)	0.05 % / °C
Nominal Module Operating Temperature	41 ± 3°C

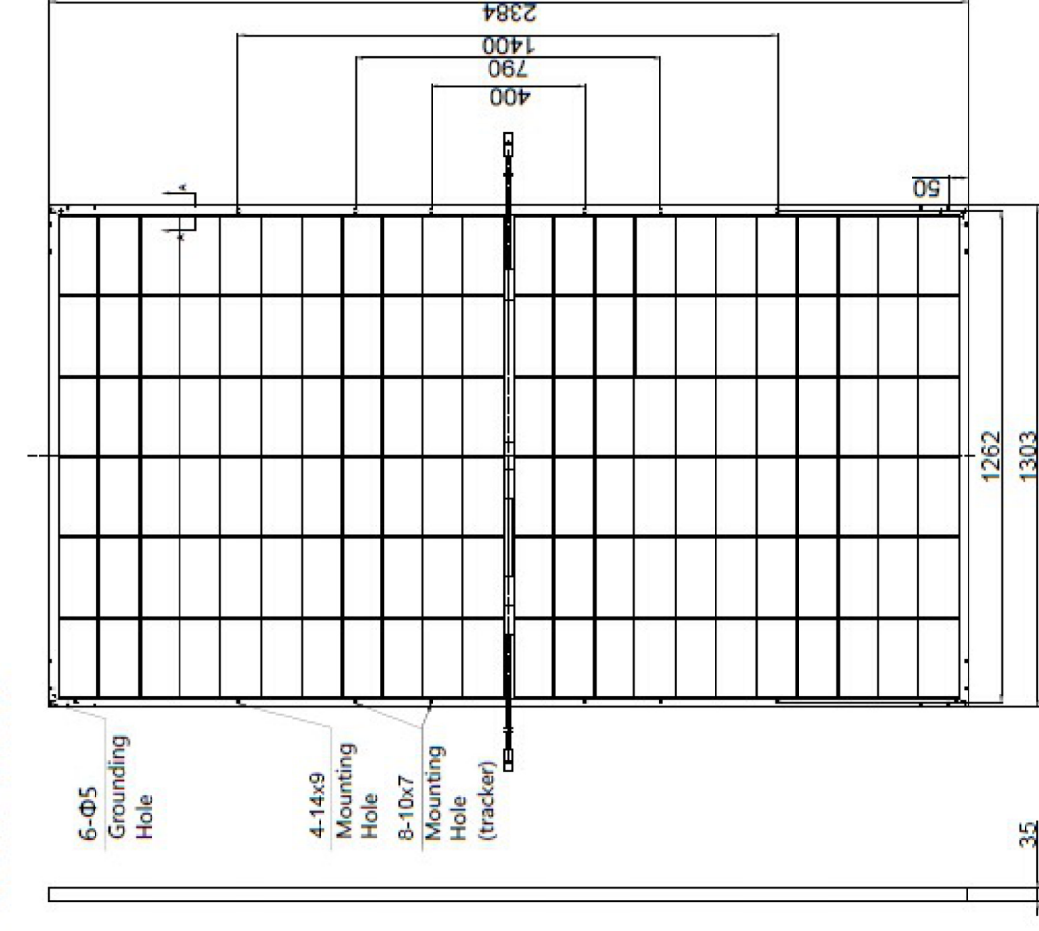
## CS7N-650MB-AG / I-V CURVES



## Frame Cross Section A-A

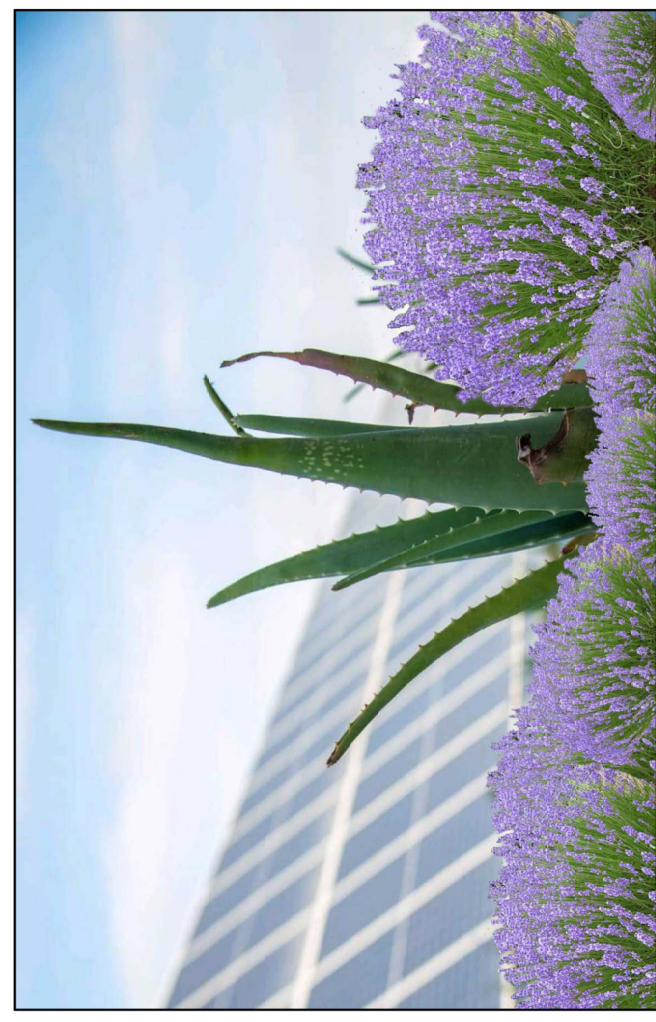


## Rear View



## REGIONE BASILICATA

Comune di Craco (MT)



## IMPIANTO AGRIVOLTAICO DA 20 MW

Per la Coltivazione di Erbe Officinali e Simili

Craco - Canzonieri

- SCHEMA FUNZIONALE PANNELLI -

Tavola: <b>D.25</b>	Nome File:	Data: <b>Agosto 2022</b>	Scala: <b>adatta dimensioni</b>
	Achievettonico	Strutture	Impianti
			Antincendio
Committente:	<b>Beta Gemini S.r.l.</b> Via Marsala, 3 - 20121 Milano - C.F. P.IVA 12269770961		
	Progettisti: Arch. Nunzio Paolo SIMMARANO Collaboratori: Dott. Arch. Filippo TAURO Arch. Carmela VENTURA Ing. Maria SATRIANO		