

# PROVINCIA DI MATERA COMUNE DI SAN MAURO FORTE

LOCALITA':

## LOCALITA' SERRA D'ULIVO

PROGETTO:

### PROGETTO DEFINITIVO PER LA REALIZZAZIONE DI UN PARCO AGRI-VOLTAICO A TERRA DELLA POTENZA NOMINALE 19,99 MW DENOMINATO "PERSOLAR1"

TITOLO DOCUMENTO:

## SCHEMI FUNZIONALI DEI SINGOLI PANNELLI

SOGGETTO RICHIEDENTE

# PERSOLAR S.R.L.

SEDE LEGALE E UFFICI

Via Santa Sofia n.22

20122 - MILANO (MI)

CF e P.IVA n. 11013420960. N. REA MI-2573256

L'ESECUTORE:

GRUPPO DI PROGETTAZIONE



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C.F. CSTDNC 73M184B350W

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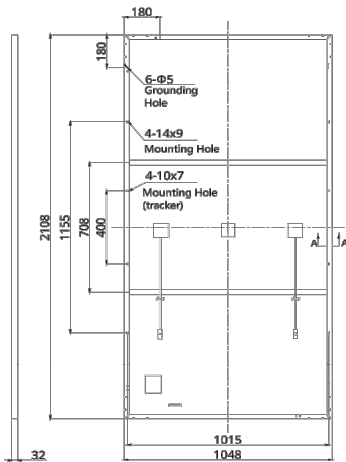
info@studioingcastaldo.it cell 3387472747

Via V.Verrastro 15/A, 85100 Potenza  
P.Iva 02094310766

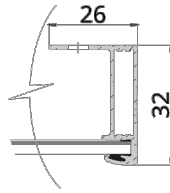
Codice lavoro	Livello progett.	Cat. Op.	Tipologia	Numero	Rev.	Pag.	di	Nome file	Scala	Progressivo
P262	PD	I.FV_IF	T	01	/00	1	1	A.12.b.3	---	57
Rev.	Data	Descrizione						Redazione	Controllo	Approvazione
00	Gennaio 2022	Emissione						ing. Domenico Castaldo EGM Project	ing. Domenico Castaldo EGM Project	ing. Domenico Castaldo EGM Project

## ENGINEERING DRAWING (mm)

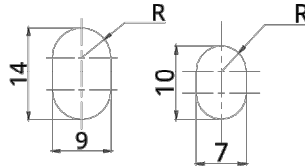
### Rear View



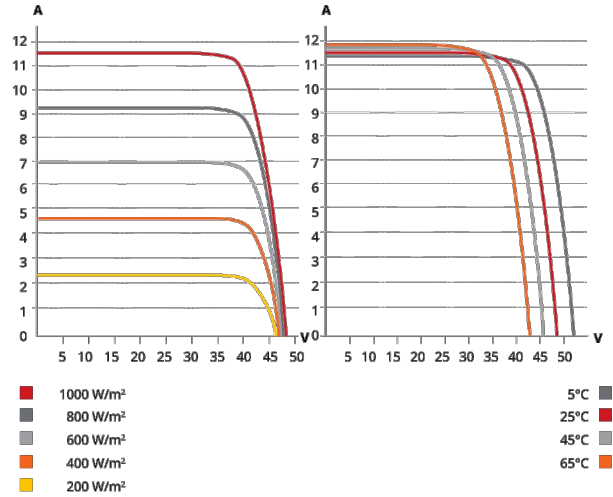
### Frame Cross Section A-A



### Mounting Hole



## CS3W-435MS / I-V CURVES



## ELECTRICAL DATA | STC\*

CS3W	430MS	435MS	440MS	445MS
Nominal Max. Power (Pmax)	430 W	435 W	440 W	445 W
Opt. Operating Voltage (Vmp)	39.7 V	39.9 V	40.1 V	40.3 V
Opt. Operating Current (Imp)	10.84 A	10.91 A	10.98 A	11.05 A
Open Circuit Voltage (Voc)	47.9 V	48.1 V	48.3 V	48.5 V
Short Circuit Current (Isc)	11.42 A	11.47 A	11.53 A	11.59 A
Module Efficiency	19.46%	19.69%	19.92%	20.14%
Operating Temperature	-40°C ~ +85°C			
Max. System Voltage	1500V (IEC/UL) or 1000V (IEC/UL)			
Module Fire Performance	TYPE 1 (UL 1703) or CLASS C (IEC 61730)			
Max. Series Fuse Rating	20 A			
Application Classification	Class A			
Power Tolerance	0 ~ + 5 W			

\* Under Standard Test Conditions (STC) of irradiance of 1000 W/m<sup>2</sup>, spectrum AM 1.5 and cell temperature of 25°C.

## ELECTRICAL DATA | NMOT\*

CS3W	430MS	435MS	440MS	445MS
Nominal Max. Power (Pmax)	320 W	324 W	328 W	331 W
Opt. Operating Voltage (Vmp)	36.9 V	37.1 V	37.3 V	37.5 V
Opt. Operating Current (Imp)	8.67 A	8.73 A	8.79 A	8.84 A
Open Circuit Voltage (Voc)	44.9 V	45.1 V	45.3 V	45.5 V
Short Circuit Current (Isc)	9.21 A	9.25 A	9.3 A	9.35 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	144 [2 X (12 X 6)]
Dimensions	2108 X 1048 X 32 mm (83.0 X 41.3 X 1.26 in)
Weight	24.7 kg (54.5 lbs)
Front Cover	3.2 mm tempered glass
Frame	Anodized aluminium alloy, crossbar enhanced
J-Box	IP68, 3 bypass diodes
Cable	4 mm <sup>2</sup> (IEC), 12 AWG (UL)
Cable Length (Including Connector)	Portrait: 500 mm (19.7 in) (+) / 350 mm (13.8 in) (-); landscape: 1400 mm (55.1 in); leap-frog connection: 1670 mm (65.7 in)*
Connector	T4 series or H4 UTX or MC4-EVO2
Per Pallet	33 pieces
Per Container (40' HQ)	726 pieces

\* For detailed information, please contact your local Canadian Solar sales and technical representatives.

## TEMPERATURE CHARACTERISTICS

Specification	Data
Temperature Coefficient (Pmax)	-0.36 % / °C
Temperature Coefficient (Voc)	-0.29 % / °C
Temperature Coefficient (Isc)	0.05 % / °C
Nominal Module Operating Temperature	42 ± 3°C

## PARTNER SECTION



\* The specifications and key features contained in this datasheet may deviate slightly from our actual products due to the on-going innovation and product enhancement. Canadian Solar Inc. reserves the right to make necessary adjustment to the information described herein at any time without further notice.

Please be kindly advised that PV modules should be handled and installed by qualified people who have professional skills and please carefully read the safety and installation instructions before using our PV modules.

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