

**LEGENDA SIMBOLI**

	MODULO FOTOVOLTAICO MONTATO SU STRUTTURA FISSA
	N.30 MODULI FOTOVOLTAICI MONTATI SU STRUTTURA AD INSEGUIMENTO - TRACKER
	N.15 MODULI FOTOVOLTAICI MONTATI SU STRUTTURA AD INSEGUIMENTO - TRACKER
	CABINA ELETTRICA CONTENENTE INVERTER CENTRALIZZATI
	SOTTOSTAZIONE ELETTRICA DI UTENTE
	STRADA PER PERCORRENZA INTERNA
	POZZETTO ROMPIRTIRATA IN CALCESTRUZZO - Dim. 1000x1000x1000mm
	DISTRIBUZIONE LINEA MEDIA TENSIONE 30KV

Moduli in posa fissa  
Q.tà: 12168  
Tot kWp: 7.057,44

Tracker da 30 moduli: 222  
Tracker da 15 moduli: 68  
Tot kWp: 4.454,4

Tracker da 30 moduli  
Q.tà: 489  
Tot kWp: 8.508,6  
kWh/kWp: 1.667,6

Prod. annuale:  
14.188.679,35kWh (PVGIS)

Tracker da 15 moduli  
Q.tà: 98  
Tot kWp: 852,6  
kWh/kWp: 1.667,6

Prod. annuale:  
1.421.769,5kWh (PVGIS)

Moduli in posa fissa  
Q.tà: 29764  
Tot kWp: 17.263,12  
kWh/kWp: 1.396,5

Prod. annuale:  
24.107.947,08kWh (PVGIS)

**Totale potenza FV:  
26.624,32 kWp**

Moduli in posa fissa  
Q.tà: 17596  
Tot kWp: 10.205,68

**SCHEMA TECNICO MODULO FOTOVOLTAICO 580Wp**

<b>560~580W</b>	<b>0~+5W</b>	<b>22.5%</b>	<b>≤ 1.0%</b>	<b>≤ 0.4%</b>
POWER RANGE	POWER SPREADING	MAX MODULE EFFICIENCY	FIRST YEAR POWER DEGRADATION	YEAR 2-35 POWER DEGRADATION

**Mechanical Specifications**

Outer dimensions (L x W x H)	2278 x 1134 x 30 mm
Cell type	monocrystalline
No. of cells	144 (IP20)
Frame technology	Aluminum, silver anodized
Front / Back glass	2/2/2.0 mm
Cable length (including connector)	Portant: (+) 150 mm (-) 120 mm; Connector length
Cable diameter (IEC IEC)	4 mm <sup>2</sup> / 12 AWG
Maximum mechanical load	5400 Pa (Front) / 2400 Pa (Back)
Connection type (IEC IEC)	MC4 (Standard) / MC4-EPDS (Optional)
Module weight	32.3 kg
Packing unit	30 pcs / box (Subject to sales contract)
Weight of packing unit (for 40' HQ container)	1215 kg
Modules per 40' HQ container	720 pcs

**Electrical Specifications**

STC: irradiance 1000W/m <sup>2</sup> , Cell Temperature 25°C, AM1.5	
Rated output (Pmp) / Wp	560 565 570 575 580
Rated voltage (Vmp) / V	42.48 42.61 42.77 42.94 43.11
Rated current (Imp) / A	13.20 13.26 13.33 13.39 13.45
Open circuit voltage (Voc) / V	56.50 56.70 56.90 57.10 57.30
Short circuit current (Isc) / A	13.93 14.02 14.10 14.19 14.28
Module efficiency	21.7% 21.9% 22.1% 22.3% 22.5%

**Electrical Specifications (Integrated power)**

Temp. gain	Pmp / Wp	Vmp / V	Imp / A	Voc / V	Isc / A
5%	599	42.77	13.39	56.90	14.30
10%	627	42.77	14.66	56.90	15.68
15%	656	42.78	15.32	56.91	16.38
20%	684	42.78	15.99	56.91	16.98
25%	713	42.78	16.65	56.91	17.58

**Temperature Ratings (STC)**

Temperature coefficient (Pmp)	-0.29%/°C	No. of diodes	3
Temperature coefficient (Voc)	-0.043%/°C	Junction box IP rating	IP 68
Temperature coefficient (Isc)	-0.29%/°C	Max. series fuse rating	20A
Operational temperature (NOCT)	41.2 °C	Max. system voltage (IEC IEC)	1500V

**Operating Parameters**

Electrical characteristics with different air power gain (reference to 570W)	
Operating temperature (T <sub>amb</sub> )	25°C
Operating voltage (V <sub>op</sub> )	42.77V
Operating current (I <sub>op</sub> )	13.39A
Operating power (P <sub>op</sub> )	570W

**Curve**

**ALBARUM S.r.l.**

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**Impianto AGROVOLTAICO - Gildone (CB)**  
**PROGETTO DEFINITIVO**



DO	08/2023	Emissione	SINTECNICA	T.CASTRO	Green Horse Engineering
REV.	DATA	OGGETTO	PREPARATO	CONTROLLATO	APPROVATO
Responsabile di Progetto:			PROGETTISTA:		
TITOLO: <b>Dorsali MT</b>					
NOTE:					
IDENTIFICAZIONE ELABORATO					
F V G I L D E I M D O 7 8					
FORMATO: A0					