

REGIONE  
BASILICATA



PROVINCIA DI  
POTENZA



COMUNE DI  
SANT'ARCANGELO

OGGETTO:

PROGETTO DEFINITIVO PER LA REALIZZAZIONE DI UN PARCO AGRI-VOLTAICO  
A TERRA "SANT'ARC. 1" DELLA POTENZA NOMINALE DI 39.90 MW  
LOCALITA' "MONTICELLI" NEL COMUNE DI SANT'ARCANGELO (PZ)

ELABORATO:

SCHEMI FUNZIONALI DEI SINGOLI PANNELLI



PROPONENTE:

COMPAGNIA DEL SOLE TRE S.R.L.  
P.IVA IT04320520986  
VIA ALDO MORO, 28  
25043- BRENO (BS)

PROGETTAZIONE:

Ing. Carmen Martone  
Iscr. n. 1872  
Ordine Ingegneri Potenza  
C.F. MRTCMN73D56H703E

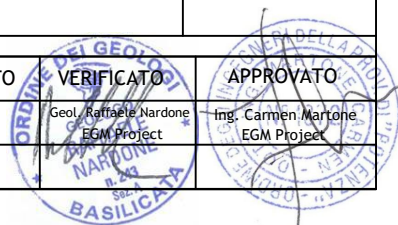


Geol. Raffaele Nardone  
Iscr. n. 243  
Ordine Geologi Basilicata  
C.F. NRDRFL71H04A509H



EGM PROJECT S.R.L.  
VIA VERRASTRO 15/A  
85100- POTENZA (PZ)  
P.IVA 02094310766  
REA PZ-206983

Livello prog.	Cat. opera	N° . prog.elaborato	Tipo elaborato	N° foglio	Tot. fogli	Nome file	Scala
PD	I.IF	A.12.b.3	D				
REV.	DATA	DESCRIZIONE			ESEGUITO	VERIFICATO	APPROVATO
01	DICEMBRE 2023	Emissione				Geol. Raffaele Nardone EGM Project	Ing. Carmen Martone EGM Project



# AURORA Pro SERIES N-TOPCon 132-cell MODULE BIFACIAL

## EG-685NT66-HU/BF-DG

### 660~685W

0~3% POSITIVE TOLERANCE

#### KEY FEATURES



**Mbb cell design**  
Multi Busbar cells brings lower resistance and increased Busbar reflectance ensures higher power output



**Low degradation**  
Adopt N-Type TOPCon cell technology, lower degradation and better temperature co-efficiency, greatly increased on generation performance



**High Reliability**  
Strict in-house testing in PV Lab which is CNAS approved & TUV /VDE certified



**Excellent Low-light Performance**  
Advanced solar cell and glass surface texturing technology allows for excellent performance in low-light environments



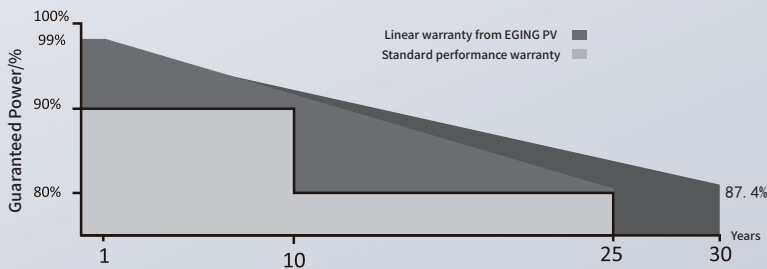
**Highly Strengthened Design**  
Certified to withstand:5400Pa snow load and 2400Pa wind load



**PID Resistant**  
Excellent PID resistance performance optimized by unique structural design

#### LINEAR PERFORMANCE WARRANTY

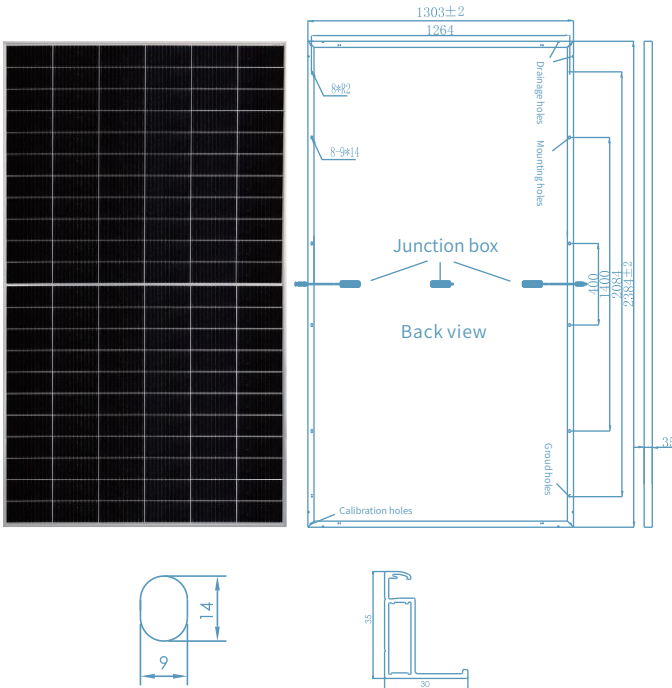
 12 Year Product Warranty  30 Year Linear Power Warranty



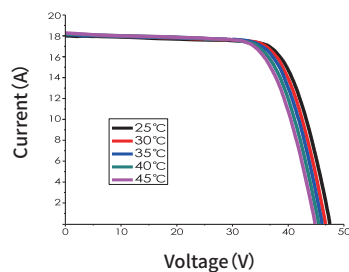
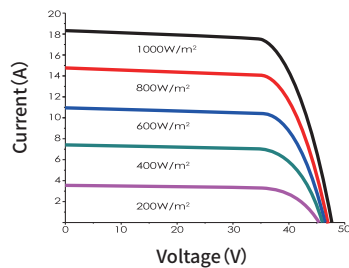
As a BloombergNEF Tier 1 and global leading manufacturer since 1998, EGING PV is committed to supplying reliable and durable PV products to customers to create together a greener planet.

# EG-685NT66-HU/BF-DG

## Engineering Drawings



## I-V Curves



## Packing Configuration

Pieces per pallet	31
Size of packing (mm)	1350*1130*2510
Weight of packing (kg)	1252
Pieces per container	558
Size of container	40' HC

## Electrical Characteristics

Power level	660	665	670	675	680	685
Pmax (W)	660	665	670	675	680	685
Vmp (V)	38.78	38.99	39.21	39.43	39.63	39.85
Imp (A)	17.02	17.06	17.09	17.12	17.16	17.19
Voc (V)	46.61	46.78	47.01	47.22	47.43	47.64
Isc (A)	18.03	18.07	18.10	18.14	18.18	18.22
Module efficiency (%)	21.24	21.40	21.56	21.72	21.89	22.05
Maximum system voltage (V)	1500					
Fuse Rating (A)	30					
Temperature coefficient Pmax (%/°C)	-0.30					
Temperature coefficient Isc (%/°C)	0.04					
Temperature coefficient Voc (%/°C)	-0.25					

STC: Irradiance 1000W/m<sup>2</sup>, module temperature 25°C, AM=1.5

## Bifacial Output-Backside Power Gain

10%	Pmax(W)	726	731	737	742	748	753
	Module efficiency (%)	23.37	23.53	23.73	23.89	24.08	24.24
20%	Pmax(W)	792	798	804	810	816	822
	Module efficiency (%)	25.50	25.69	25.88	26.08	26.27	26.46

## Working Characteristics

Power level	660	665	670	675	680	685
Pmax (W)	502	506	509	512	516	520
Vmp (V)	36.41	36.62	36.76	36.92	37.10	37.30
Imp (A)	13.79	13.82	13.85	13.88	13.91	13.95
Voc (V)	44.11	44.28	44.41	44.63	44.82	45.00
Isc (A)	14.53	14.56	14.59	14.62	14.65	14.68
Power tolerance (%)	0~+3					
NOCT (°C)	44±2					

NOCT: Conditions: Irradiance 800W/m<sup>2</sup>, ambient temperature 20°C, wind speed 1m/s

## Mechanical Characteristics

Number of cells	132pcs
Size of cell (mm)	210*105
Type of cell	N-type Mono
Thickness of glass (mm)	2.0
Type of frame	Anodized aluminum alloy
Junction box	IP68
Size of module (mm)	2384*1303*35
Weight (kg)	38.3
Cables/connectors	4mm <sup>2</sup> , MC4 compatible
Length of Cabel	Portrait: +300mm/-300mm

## Maximum Ratings

Operating Temperature(°C)	-40~85
Operating humidity(°C)	5~85
Allowable Hail Load	25mm ice-ball with velocity of 23m/s

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Specifications included in this datasheet are subject to change without notice.



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