

REGIONE
BASILICATA



PROVINCIA DI
MATERA



COMUNE DI
STIGLIANO

OGGETTO:

PROGETTO DEFINITIVO PER LA REALIZZAZIONE DI UN PARCO AGRI-VOLTAICO
A TERRA "STIGLIANO" DELLA POTENZA NOMINALE DI 20 MW
LOCALITA' "STANZALAURO" NEL COMUNE DI STIGLIANO (MT)

ELABORATO:

SCHEMI FUNZIONALI DEI SINGOLI PANNELLI



PROPONENTE:

COMPAGNIA DEL SOLE DUE S.R.L.
P.IVA IT04320530985
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				1:
REV.	DATA	DESCRIZIONE			ESEGUITO	VERIFICATO	APPROVATO
00	GENNAIO 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



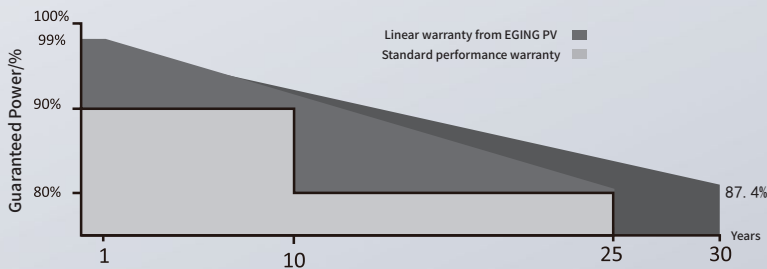
Highly Strengthened Design
Certified to withstand:5400Pa snow load and 2400Pa wind load



PID Resistant
Excellent PID resistance performance optimized by unique structural design

LINEAR PERFORMANCE WARRANTY

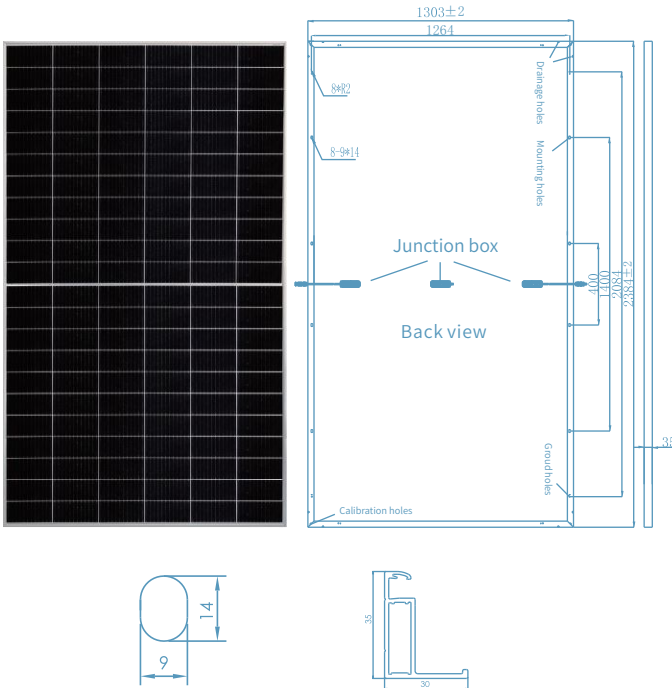
 12 Year Product Warranty  30 Year Linear Power Warranty



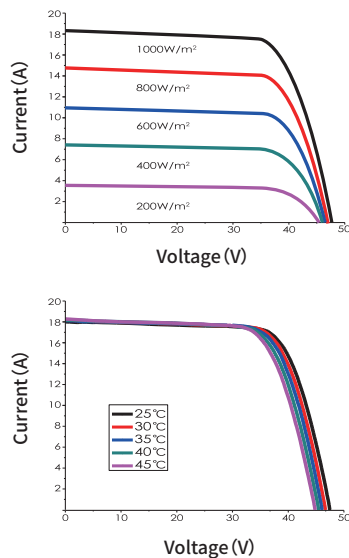
As a BloombergNEF Tier 1 and global leading manufacturer since 1998, EGING PV is committed to supplying reliable and durable PV products to customers to create together a greener planet.

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/m², 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/m², 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 ² , 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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