

1	PROGETTO REV 01	MR	11/21
REV.	DESCRIZIONE E REVISIONE	Sigla	Data
			Firma
		EMESSO	

PROGETTAZIONE	<b>GVC s.r.l.</b> Via della Pineta 1 - 85100 - Potenza email: info@gvcingegneria.it - website: www.gvcingegneria.it P.E.C.: gvcstf@gigapec.it  Direttore Tecnico: dott. ing. MICHELE RESTAINO  Collaboratori GVC s.r.l. per il progetto: dott. ing. GIORGIO MARIA RESTAINO dott. ing. CARLO RESTAINO dott. ing. ATTILIO ZOLFANELLI	 <b>SERVIZI DI INGEGNERIA</b>

Committente	<b>VERDE 4 S.R.L.</b>		
Comune	<b>COMUNI DI LARINO - URURI - MONTORIO NEI FRENTANI (CB)</b>	COD. RIF	G/129/03/A/01/PD
Opera	PROGETTO PER LA REALIZZAZIONE DI UN IMPIANTO AGRIVOLTAICO DI POTENZA NOMINALE PARI A 25.937,6 kWp DENOMINATO LARINO 7 - UBICATO IN LOCALITA' MACCHIA NEL COMUNE DI MONTORIO NEI FRENTANI E NEI COMUNE DI URURI E LARINO (LOCALITÀ PIANI DI LARINO)	ELABORATO	FILE
		Categoria	N.°
		PD	Scala
Oggetto	PROGETTO DEFINITIVO  <b>SCHEMA FUNZIONALE DEI SINGOLI PANNELLI</b>	<b>E-04</b>  <small>Questo disegno è di nostra proprietà riservata a termine di legge e ne è vietata la riproduzione anche parziale senza nostra autorizzazione scritta</small>	

# TR Bifacial 560-580 Watt

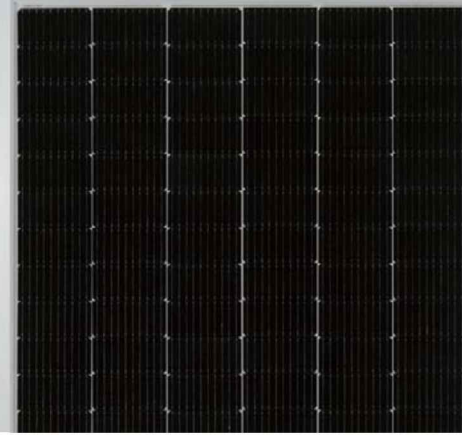
Tiling Ribbon (TR) Technology

Positive power tolerance of 0~+3%

ISO9001:2015, ISO14001:2015, ISO45001:2018 certified factory

IEC61215, IEC61730 certified product

**TIGER Pro**



## KEY FEATURES



### TR technology + Half Cell

TR technology with Half cell aims to eliminate the cell gap to increase module efficiency (bi-facial up to 21.21%)



### MBB instead of 5BB

MBB technology decreases the distance between bus bars and finger grid line which is benefit to power increase.



### Higher lifetime Power Yield

2% first year degradation, 0.45% linear degradation



### Best Warranty

12 year product warranty, 30 year linear power warranty



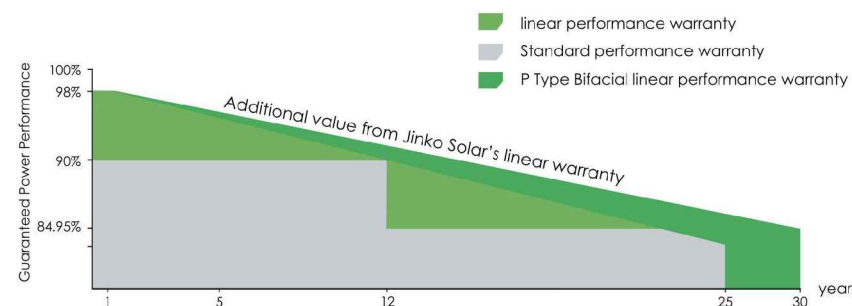
### Strengthened Mechanical Support

5400 Pa snow load, 2400 Pa wind load

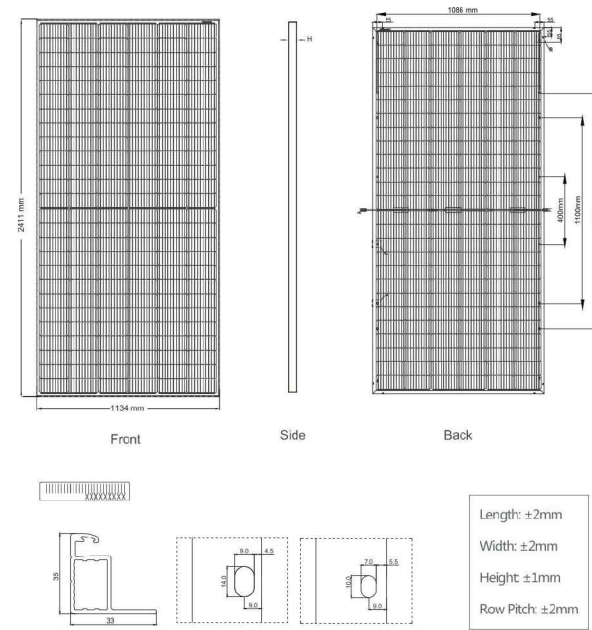


## LINEAR PERFORMANCE WARRANTY

12 Year Product Warranty • 30 Year Linear Power Warranty  
0.45% Annual Degradation Over 30 years



## Engineering Drawings



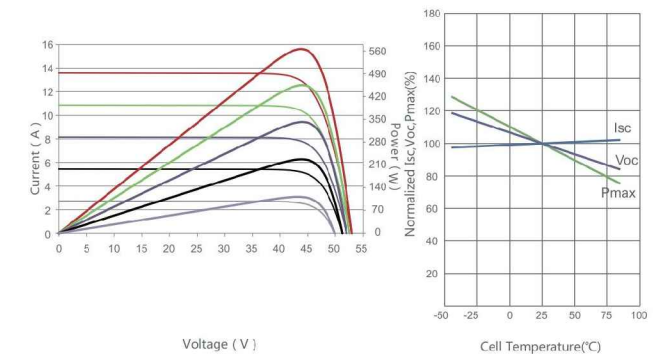
## Packaging Configuration

( Two pallets = One stack )

31pcs/pallets, 62pcs/stack, 496pcs/ 40'HQ Container

## Electrical Performance & Temperature Dependence

### Current-Voltage & Power-Voltage Curves (565W)



## Mechanical Characteristics

Cell Type	P type Mono-crystalline
No. of cells	156 (2×78)
Dimensions	2411×1134×35mm (94.92×44.65×1.38 inch)
Weight	31.1 kg (68.6 lbs)
Front Glass	3.2mm, Anti-Reflection Coating, High Transmission, Low Iron, Tempered Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP68 Rated
Output Cables	TUV 1×4.0mm <sup>2</sup> (+): 290mm, (-): 145mm or Customized Length

## SPECIFICATIONS

Module Type	JKM560M-7RL4-TV		JKM565M-7RL4-TV		JKM570M-7RL4-TV		JKM575M-7RL4-TV		JKM580M-7RL4-TV	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax)	560Wp	417Wp	565Wp	420Wp	570Wp	424Wp	575Wp	428Wp	580Wp	432Wp
Maximum Power Voltage (Vmp)	43.65V	40.63V	43.77V	40.74V	43.89V	40.85V	44.00V	40.96V	44.11V	41.07V
Maximum Power Current (Imp)	12.83A	10.26A	12.91A	10.32A	12.99A	10.38A	13.07A	10.44A	13.15A	10.51A
Open-circuit Voltage (Voc)	52.85V	49.88V	52.97V	50.00V	53.09V	50.11V	53.20V	50.21V	53.31V	50.32V
Short-circuit Current (Isc)	13.51A	10.91A	13.59A	10.98A	13.67A	11.04A	13.75A	11.11A	13.83A	11.17A
Module Efficiency STC (%)	20.48%		20.67%		20.85%		21.03%		21.21%	
Operating Temperature(°C)	-40°C~+85°C									
Maximum system voltage	1500VDC (IEC)									
Maximum series fuse rating	25A									
Power tolerance	0~+3%									
Temperature coefficients of Pmax	-0.35%/°C									
Temperature coefficients of Voc	-0.28%/°C									
Temperature coefficients of Isc	0.048%/°C									
Nominal operating cell temperature (NOCT)	45±2°C									
Refer. Bifacial Factor	70±5%									

## BIFACIAL OUTPUT-REAR SIDE POWER GAIN

		560Wp	565Wp	570Wp	575Wp	580Wp
5%	Maximum Power (Pmax)	588Wp	593Wp	599Wp	604Wp	609Wp
	Module Efficiency STC (%)	21.51%	21.70%	21.89%	22.08%	22.27%
15%	Maximum Power (Pmax)	644Wp	650Wp	656Wp	661Wp	667Wp
	Module Efficiency STC (%)	23.55%	23.76%	23.98%	24.19%	24.40%
25%	Maximum Power (Pmax)	700Wp	706Wp	713Wp	719Wp	725Wp
	Module Efficiency STC (%)	25.60%	25.83%	26.06%	26.29%	26.52%

\* STC: ☀ Irradiance 1000W/m<sup>2</sup> 📱 Cell Temperature 25°C ☁ AM=1.5  
NOCT: ☀ Irradiance 800W/m<sup>2</sup> 📱 Ambient Temperature 20°C ☁ AM=1.5 🌀 Wind Speed 1m/s