



REGIONE
PUGLIA

COMUNE DI SAN SEVERO (FG)

Progettazione Centrale Solare " Energia dell'olio del Tavoliere " da 50.859 kW



Proponente:



Peridot Solar
GREEN ENERGY SOLUTIONS

Peridot Solar Blue s.r.l.

Via Alberico Albricci, 7 - 20122 Milano (MI) - Italia

Investitore agricolo
superintensivo :

OXYCAPITAL

OXY CAPITAL

Largo Donegani,2 - 20121 Milano (MI) - Italia

Partner:



Titolo: Scheda tecnica moduli fotovoltaici

N° Elaborato: 102

**Progetto dell'inserimento paesaggistico
e mitigazione**

Progettista:

Agr. Fabrizio Cembalo Sambiase
Arch. Alessandro Visalli

Collaboratori:

Agr. Rosa Verde
Arch. Anna Sirica
Urb. Enrico Borrelli
Urb. Daniela Marrone
Urb. Patrizia Ruggiero

Cod: AD_13

Scala:

Progettazione elettrica e civile

Progettista:

Ing. Rolando Roberto
Ing. Marco Balzano

Collaboratori:

Ing. Simone Bonacini
Ing. Giselle Roberto

Consulenza geologia
Geol. Gaetano Ciccarelli

Consulenza archeologia
Archeol. Concetta C.Costa

tipo di progetto:

- ☐ RILIEVO
- ☐ PRELIMINARE
- ☒ DEFINITIVO
- ☐ ESECUTIVO

Progettazione:



Rev.	Descrizione	Data	Formato	Elaborato da	Controllato da	Approvato da
00	Consegna	Dicembre 2022	A4			

Tiger Neo N-type 78HL4-(V) 595-615 Watt MONO-FACIAL MODULE

N-Type

Positive power tolerance of 0~+3%

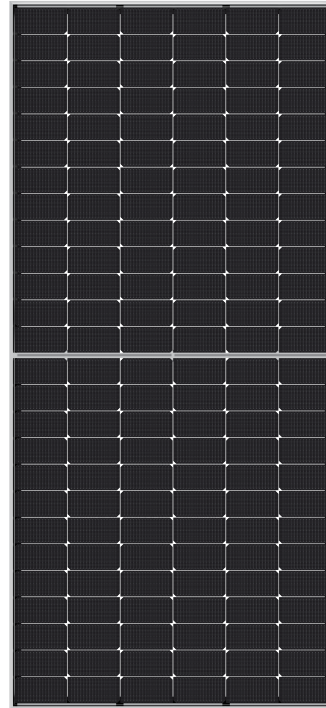
IEC61215(2016), IEC61730(2016)

ISO9001:2015: Quality Management System

ISO14001:2015: Environment Management System

ISO45001:2018

Occupational health and safety management systems



Key Features



SMBB Technology

Better light trapping and current collection to improve module power output and reliability.



Hot 2.0 Technology

The N-type module with Hot 2.0 technology has better reliability and lower LID/LETID.



PID Resistance

Excellent Anti-PID performance guarantee via optimized mass-production process and materials control.



Enhanced Mechanical Load

Certified to withstand: wind load (2400 Pascal) and snow load (5400 Pascal).



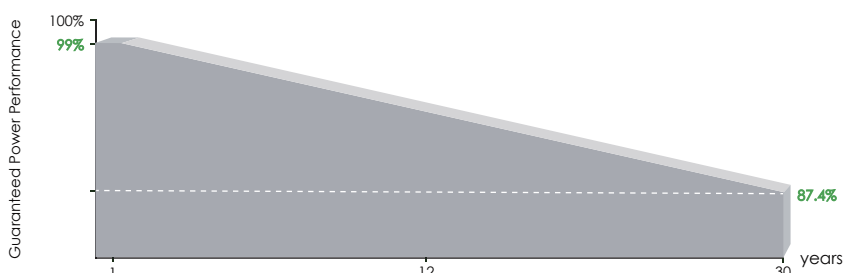
Higher Power Output

Module power increases 5-25% generally, bringing significantly lower LCOE and higher IRR.



Continuous Quality Assurance

LINEAR PERFORMANCE WARRANTY

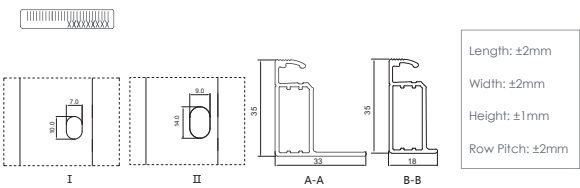


12 Year Product Warranty

30 Year Linear Power Warranty

0.40% Annual Degradation Over 30 years

Engineering Drawings

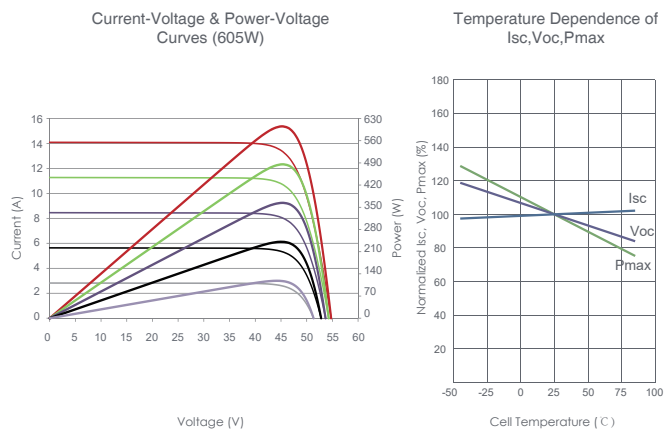


Packaging Configuration

(Two pallets = One stack)

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

Electrical Performance & Temperature Dependence



Mechanical Characteristics

Cell Type	N type Mono-crystalline
No. of cells	156 (2×78)
Dimensions	2465×1134×35mm (97.05×44.65×1.38 inch)
Weight	31.2 kg (68.78 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' (+): 400mm , (-): 200mm or Customized Length

SPECIFICATIONS

Module Type	JKM595N-78HL4 JKM595N-78HL4-V		JKM600N-78HL4 JKM600N-78HL4-V		JKM605N-78HL4 JKM605N-78HL4-V		JKM610N-78HL4 JKM610N-78HL4-V		JKM615N-78HL4 JKM615N-78HL4-V	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax)	595Wp	444Wp	600Wp	447Wp	605Wp	451Wp	610Wp	455Wp	615Wp	459Wp
Maximum Power Voltage (Vmp)	45.15V	41.85V	45.25V	41.97V	45.36V	42.08V	45.46V	42.19V	45.57V	42.30V
Maximum Power Current (Imp)	13.18A	10.60A	13.26A	10.66A	13.34A	10.72A	13.42A	10.78A	13.50A	10.84A
Open-circuit Voltage (Voc)	54.56V	51.50V	54.66V	51.59V	54.76V	51.69V	54.86V	51.78V	54.96V	51.88V
Short-circuit Current (Isc)	13.93A	11.25A	14.01A	11.32A	14.09A	11.38A	14.17A	11.44A	14.25A	11.51A
Module Efficiency STC (%)	21.29%		21.46%		21.64%		21.82%		22.00%	
Operating Temperature(°C)	-40°C~+85°C									
Maximum system voltage	1000/1500VDC (IEC)									
Maximum series fuse rating	30A									
Power tolerance	0~+3%									
Temperature coefficients of Pmax	-0.30%/°C									
Temperature coefficients of Voc	-0.28%/°C									
Temperature coefficients of Isc	0.048%/°C									
Nominal operating cell temperature (NOCT)	45±2°C									

*STC:  Irradiance 1000W/m²  Cell Temperature 25°C

 AM=1.5

NOCT:  Irradiance 800W/m²  Ambient Temperature 20°C

 AM=1.5

 Wind Speed 1m/s