



REGIONE BASILICATA
 PROVINCIA DI MATERA
 COMUNE DI POMARICO,
 MONTESCAGLIOSO E BERNALDA



AUTORIZZAZIONE UNICA EX D.Lgs 387/2003

**INSTALLAZIONE DI UN IMPIANTO DI PRODUZIONE DI ENERGIA DA
 FONTE SOLARE DENOMINATO "POMARICO 1" DI POTENZA IN
 IMMISSIONE PARI A 20.000,00 kW E POTENZA DI PICCO PARI A
 19.728,66 kW**

Codice pratica: 202100508



Codice elaborato

Commessa	Livello prog.	Tipologia	Progressivo
SE224	PD	D	033

DATA	SCALA
Novembre 2021	-

Titolo elaborato

**A.12.b.3-Schemi funzionali dei
 singoli pannelli**

REVISIONI

REV.	DATA	DESCRIZIONE	ESEGUITO	VERIFICATO	APPROVATO

Progettazione:



STUDIO ENERGY SRL
 Via delle Comunicazioni snc
 75100 Matera
 C/F. e PIVA 01175590775

Tecnici:

Dott. Ing. Calbi Francesco Rocco



Il Proponente:



SMARTENERGYIT2108 S.R.L.
 Piazza Covour, 1 - 20121 Milano (MI)
 C.F./P.IVA 11625090961

LEGALE RAPPRESENTANTE

www.jinkosolar.com



Tiger Pro 72HC-TV 525-545 Watt BIFACIAL MODULE WITH TRANSPARENT BACKSHEET

P-Type

Positive power tolerance of 0~+3%

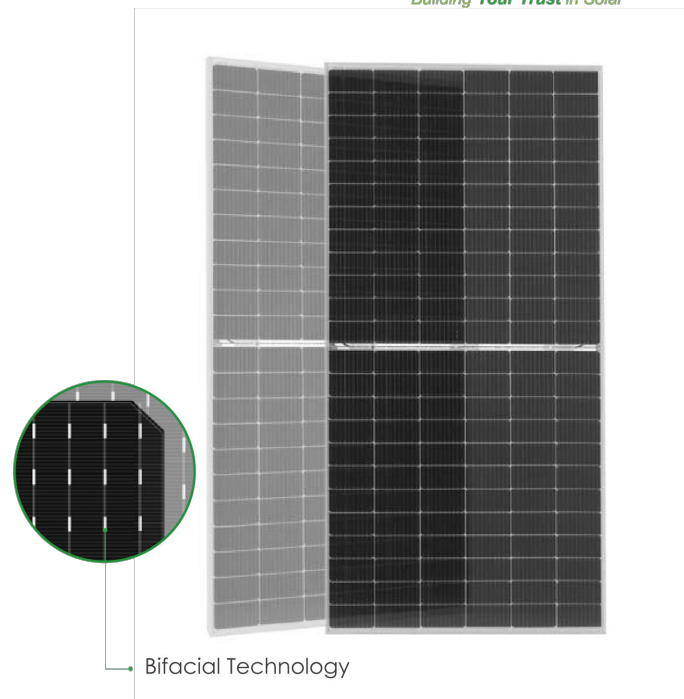
IEC61215(2016), IEC61730(2016)

ISO9001:2015: Quality Management System

ISO14001:2015: Environment Management System

ISO45001:2018

Occupational health and safety management systems



Bifacial Technology

Key Features



Multi Busbar Technology

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



Longer Life-time Power Yield

0.45% annual power degradation and 30 year linear power warranty.



Light-weight design

Light-weight design using transparent backsheet for easy installation and low BOS cost.



Enhanced Mechanical Load

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

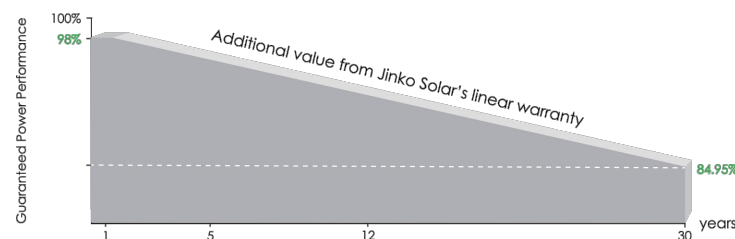


Higher Power Output

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



LINEAR PERFORMANCE WARRANTY

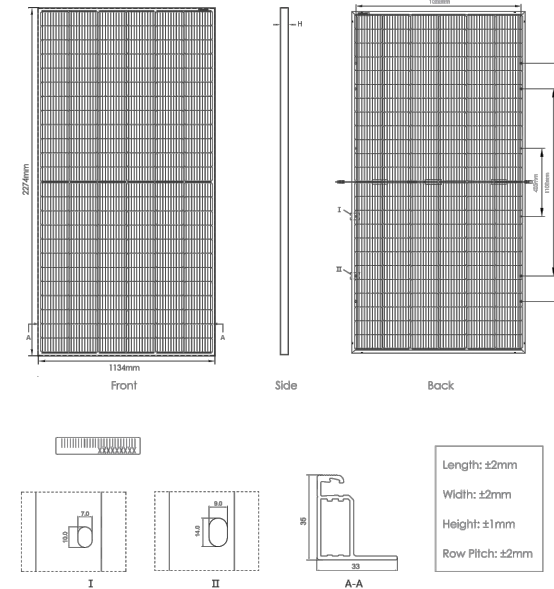


12 Year Product Warranty

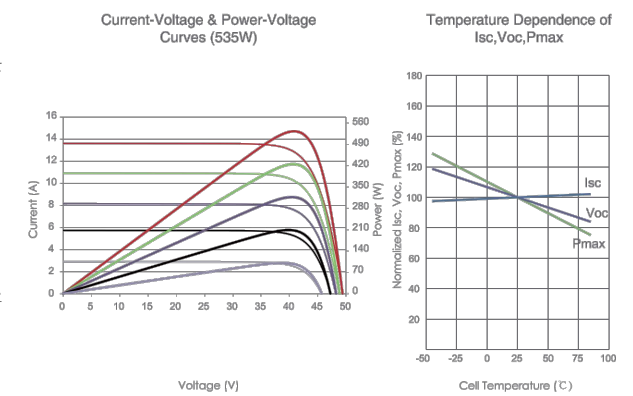
30 Year Linear Power Warranty

0.45% Annual Degradation Over 30 years

Engineering Drawings



Electrical Performance & Temperature Dependence



Mechanical Characteristics

Cell Type	P type Mono-crystalline
No. of cells	144 (6×24)
Dimensions	2274×1134×35mm (89.53×44.65×1.38 inch)
Weight	28.9 kg (63.7 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 ² (+): 400mm, (-): 200mm or Customized Length

Packaging Configuration

(Two pallets = One stack)
31 pcs/pallets, 62 pcs/stack, 620 pcs/ 40'HQ Container

SPECIFICATIONS

Module Type	JKM525M-72HL4-TV		JKM530M-72HL4-TV		JKM535M-72HL4-TV		JKM540M-72HL4-TV		JKM545M-72HL4-TV	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax)	525Wp	391Wp	530Wp	394Wp	535Wp	398Wp	540Wp	402Wp	545Wp	405Wp
Maximum Power Voltage (Vmp)	40.61V	37.74V	40.71V	37.88V	40.81V	37.98V	40.91V	38.08V	41.07V	38.18V
Maximum Power Current (Imp)	12.93A	10.35A	13.02A	10.41A	13.11A	10.48A	13.20A	10.55A	13.27A	10.62A
Open-circuit Voltage (Voc)	49.27V	46.50V	49.35V	46.58V	49.42V	46.65V	49.49V	46.71V	49.65V	46.86V
Short-circuit Current (Isc)	13.64A	11.02A	13.71A	11.07A	13.79A	11.14A	13.87A	11.20A	13.94A	11.26A
Module Efficiency STC (%)	20.36%		20.55%		20.75%		20.94%		21.13%	
Operating Temperature(°C)	-40°C~+85°C									
Maximum system voltage	1500VDC (IEC)									
Maximum series fuse rating	30A									
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

		JKM525M-72HL4-TV	JKM530M-72HL4-TV	JKM535M-72HL4-TV	JKM540M-72HL4-TV	JKM545M-72HL4-TV
5%	Maximum Power (Pmax)	551Wp	557Wp	562Wp	567Wp	572Wp
	Module Efficiency STC (%)	21.38%	21.58%	21.78%	21.99%	22.19%
15%	Maximum Power (Pmax)	604Wp	610Wp	615Wp	621Wp	623Wp
	Module Efficiency STC (%)	23.41%	23.64%	23.86%	24.08%	24.30%
25%	Maximum Power (Pmax)	656Wp	663Wp	669Wp	675Wp	681Wp
	Module Efficiency STC (%)	25.45%	25.69%	25.93%	26.18%	26.42%

*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

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

JKM525-545M-72HL4-TV-F1-EN