



REGIONE
PUGLIA



PROVINCIA
DI BRINDISI



COMUNE
DI BRINDISI



COMUNE
DI CELLINO SAN MARCO



COMUNE
DI MESAGNE

Realizzazione di impianto agrivoltaico con produzione agricola e di energia elettrica da fonte rinnovabile fotovoltaica da ubicarsi in località Specchione in agro di Brindisi, Cellino San Marco e Mesagne (BR) e delle relative opere di connessione alla RTN

Potenza nominale cc: 42,98 MWp - Potenza in immissione ca: 35,00 MVA

ELABORATO

COMPONENTI PRINCIPALI - DATA SHEET

IDENTIFICAZIONE ELABORATO

Livello progetto	Codice Pratica	documento	codice elaborato	n° foglio	n° tot. fogli	Nome file	Data	Scala
PD	1RCCNG4	R	2.15	-	7	1RCCNG4_R_2.15_DATASHEET.pdf	Ottobre 2021	n.a.

REVISIONI

Rev. n°	Data	Descrizione	Redatto	Verificato	Approvato
00	14/06/2021	1° Emissione	AMBRON	TERLIZZI	TERLIZZI
01	15/10/2021	2° Emissione	AMBRON	TERLIZZI	TERLIZZI

PROGETTAZIONE:

MATE System Unipersonale srl

Via Papa Pio XII, n.8 70020 Cassano delle Murge (BA)

tel. +39 080 5746758

mail: info@matesystemsrl.it pec: matesystem@pec.it

Progettista:

Ing. Antonio TERLIZZI



DIRITTI Questo elaborato è di proprietà della Luminora Specchione S.r.l. pertanto non può essere riprodotto né integralmente, né in parte senza l'autorizzazione scritta della stessa. Da non utilizzare per scopi diversi da quelli per cui è stato fornito.

RICHIEDENTE:
LUMINORA SPECCHIONE S.R.L.
Via TEVERE n.°41
00198 ROMA

L'AMMINISTRATORE
Dott. PABLO MIGUEL OTIN PINTADO

TR Bifacial 560-580 Watt

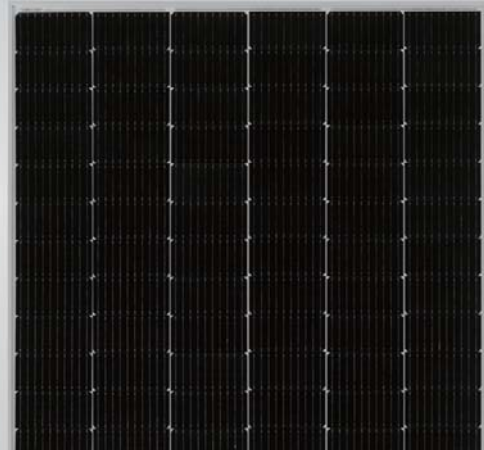
Tiling Ribbon (TR) Technology

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



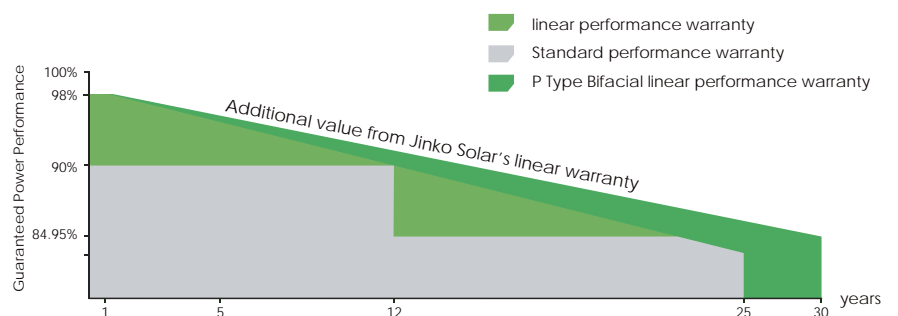
Strengthened Mechanical Support

5400 Pa snow load, 2400 Pa wind load

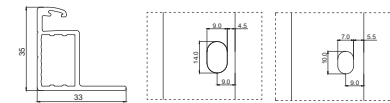
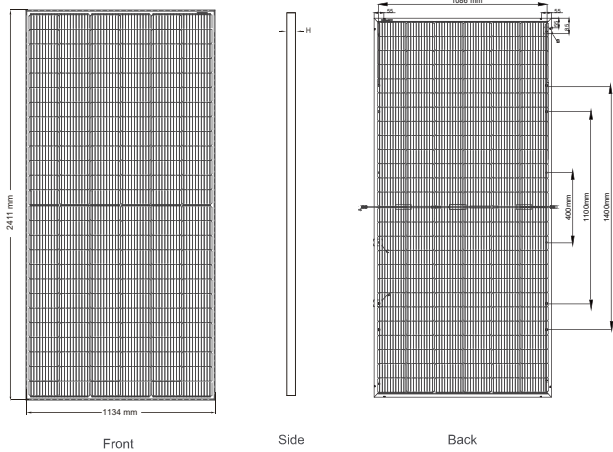


LINEAR PERFORMANCE WARRANTY

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



Engineering Drawings



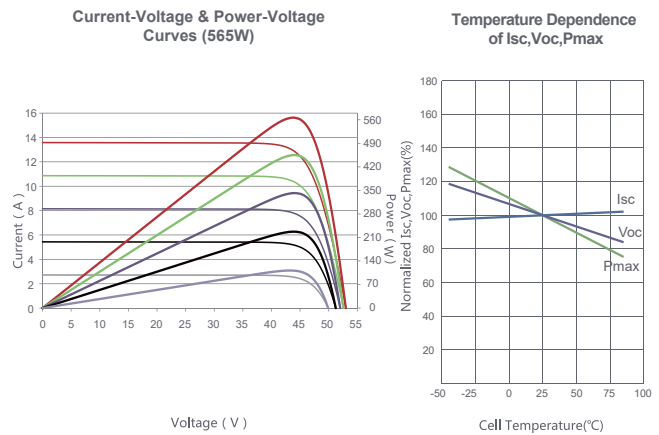
Length: ± 2 mm
 Width: ± 2 mm
 Height: ± 1 mm
 Row Pitch: ± 2 mm

Packaging Configuration

(Two pallets = One stack)

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

Electrical Performance & Temperature Dependence



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 ² (+): 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

		5%		15%		25%	
		Maximum Power (Pmax)	Module Efficiency STC (%)	Maximum Power (Pmax)	Module Efficiency STC (%)	Maximum Power (Pmax)	Module Efficiency STC (%)
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/m² Cell Temperature 25°C AM=1.5
 NOCT: Irradiance 800W/m² Ambient Temperature 20°C AM=1.5 Wind Speed 1m/s



The next-generation-now horizontal single-axis solar tracker



TECHNICAL DATASHEET



Single-Axis Tracker

MAIN FEATURES

Tracking System	Horizontal Single-Axis with independent rows	
Tracking Range	up to $\pm 60^\circ$	
Drive System	Enclosed Slewing Drive, DC Motor	
Power Supply	AC/DC Universal Input Optional: Self-Powered PV Series	
Tracking Algorithm	Astronomical with TeamTrack Backtracking	
Communication	RS-485 cable not included in Soltec scope	
Wire	Wireless optional:	RS-485 Full Wired Hybrid Radio + RS-485 Cable Full Wireless
Wind Resistance	Per Local Codes	
Land Use Features		
Independent Rows	YES	
Slope North-South	up to 17%	
Slope East-West	Unlimited	
Ground Coverage Ratio	Configurable. Typical range: 30-50%	
Foundation	Driven Pile Ground Screw Concrete	
Temperature Range		
Standard	- 4°F to +131°F -20°C to +55°C	
Extended	-40°F to +131°F -40°C to +55°C	
Availability	>99%	
Modules	Bifacial	

MODULE CONFIGURATIONS Aproximate Dimentions

	Length	Height	Width		Length	Height	Width
2x27	28.1 m (92' 3")	4.21 m (13' 10")	4.17 m (13' 8")	2x40.5	42.4 m (139' 3")	4.21 m (13' 10")	4.17 m (13' 8")

SERVICES

Pull Test Plan	Commissioning Plan
Factory Support Plan	Operation & Maintenance Plan
Onsite Advisory Plan	Tracker Monitoring System Plan
Construction Plan	Solmate Customer Care

MAINTENANCE ADVANTAGES

Self-lubricating Bearings
Face to Face Cleaning Mode
2x Wider Aisles

WARRANTY

Structure 10 years (extendable)
Motor 5 years (extendable)
Electronics 5 years (extendable)

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B&V Bankability report
DNV GL Technology
Review available
RWDI WIND TUNNEL TESTED

2 year background
industrial operation



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CPS SCH275KTL-DO/EU

Chint Power 1500V String Inverter
High Return of the Whole Life Cycle



Low Investment

Three-phase string series inverters products providing standard configuration DC switch, integrated DC combiner box, standard class II lightning protection, optional PLC/RS485 communication, which can match the requirements of different customers, support 10% rated overload which can efficiently decrease initial investment of system.

High Profits

Three-phase string inverters can provide 99.0% maximum efficiency, 98.5% Euro efficiency, 99.5% MPPT efficiency, advanced topology design and international known device options, which can guarantee the profits of the Whole Life Cycle.

Maintenance Warranty

String inverter can support remote monitoring, fault diagnosis and software upgrade, 7*24H after-sales service can guarantee the maintenance of the Whole Life Cycle.

Model Name	CPS SCH275KTL-DO/EU
DC Input	
Max. DC Voltage	1500Vdc
MPPT Voltage Range (Full Load)	880-1300Vdc
Rated DC Voltage	1190Vdc
Number of MPPT	12
Number of DC Connection Sets per MPPT	2
Max. DC Current	12 * 30A
Max. Current for input connector	30A
DC Disconnection Type	Integrated Switch
AC Output	
Rated AC Power	250kW
Max. AC Power	275kVA
Rated AC Voltage	800V
Rated AC Voltage Range	680 - 880Vac
Grid Connection Type	3Φ / PE
Max. AC Current	198.5A
Grid Frequency	50Hz / 60Hz
Grid Frequency Range	47 - 53 Hz/ 57-63Hz
Power Factor (cosφ)	±0.8 (adjustable)
Current THD	< 3%
AC Disconnection Type	-
System Data	
Topology	Transformerless
Max. Efficiency	99.00%
Euro Efficiency	98.50%
Consumption at Night/Standby	<5W
Environment Data	
Ingress Protection	IP66
Cooling Method	Cooling Fans
Operating Temperature	-30°C ~ 60°C (derating from +45°C)
Ambient Humidity	0 - 100%, Non-condensing
Altitude	4000m
Display and Communication	
Display	LED+ APP (Wi-Fi)
Communication	RS485 (Standard) / PLC (Optional)
Mechanical Data	
Dimensions (W*H*D) [mm]	1100 * 680* 337
Weight [kg]	105
Safety	
Certifications	IEC/EN 61000-6-2, IEC/EN 61000-6-4, IEC/EN 62109-1/2, IEC 61727, IEC 62116, IEC 60068-2, IEC 61683

* "Output Voltage Range" and "Output Frequency Range" may be differ according to specific grid codes.