



Groschopp Systems Solutions

www.groschopp-solar.com

e-mail: sales@groschopp-solar.com

tel: +381213019154

GroSol GS500s - Monocrystalline solar module

S p e c i f i c a t i o n	Electrical Characteristics at Standard Test Conditions (STC)		
	GroSol GS500s		
	Maximum power Pmax	500	(W)
	Open Circuit Voltage	41.70	Voc (V)
	Short Cuit Current	14.96	Isc (A)
	Maximum Power Voltage	35.34	Vm (V)
	Maximum Power Current	14.14	Im (A)
	Module Efficiency	21.45	(%)
	Mechanical Characteristics		
	Dimensions	2148x1050x35 (LxWxH)	mm
	Weight	24.81	kg
	Front Glass	White toughened safety glass, 3,2 mm	
	Cells	210*210 PERC solar cells	
	Back Sheet	high weatherability backsheet	
	Frame	Anodized aluminium profile	
	Junction Box	IP68, TÜV, two diodes	
	Cable	length 900 mm, 1x4 mm ²	
	Connector	compatibile with MC4	
	Temperature Characteristics		
	Nominal Operating Temp	42.3 ± 2	°C
Open Curcuit Voltage Temp	-0.27	(%/°C)	
Short Curcuit Voltage Temp	0.04	(%/°C)	
Peak Power Temp	-0,34	(%/°C)	
Maximum Ratings			
Max System Voltage	DC1500IEC	(V)	
Max Series Fuse Rating	20	(A)	
Frontal static load	5400	(Pa)	
Operate Temp Scope	-40 to 85	°C	
Withstanding Hail	Max diameter of 25 mm with impact speed of 23 m/s		

NOTE:

- Standard Test conditions (STC): irradiance 1,000 W/m²; AM 1,5; ambient temperature 25°C according to EN 60904-3
 - Nominal Module Operating Temperature (NMOT): Irradiance 800 W/m²; wind speed 1m/s; ambient temperature 20 °C
 - Tolerance of Pm: 0~+5W; Measuring uncertainty of power: ±3%; Performance deviation of Voc, Isc, Vm and Im: ±3%
- Certified in accordance with IEC61215, IEC61730 -1/2

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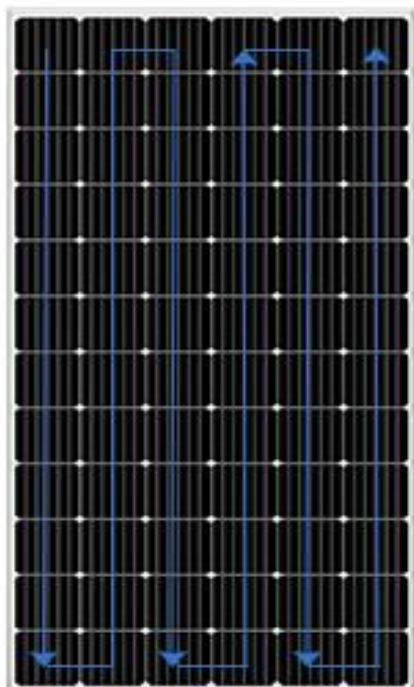
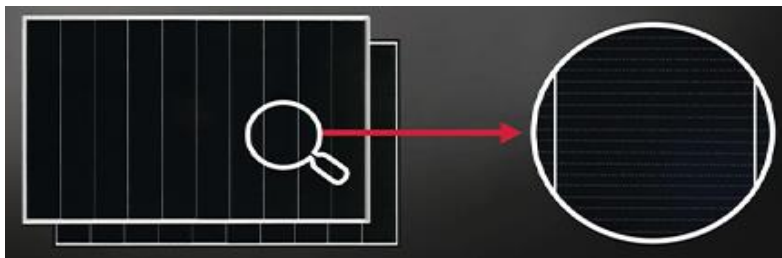
Tehnologija solarnih ćelija (eng. Shingle Technology) sa šindrom karakteriše poseban kontakt obrazac koji omogućava da se solarne ćelije povezuju u trake, a trake su spojene provodljivim lepkom - veći broj solarnih ćelija.

Ovakva tehnologija obezbeđuje visoku efikasnost, snažan fotonaponski potencijal, solarni paneli imaju strukturu bez sabirnica u kojoj samo mali deo ćelije nije izložen sunčevoj svetlosti.

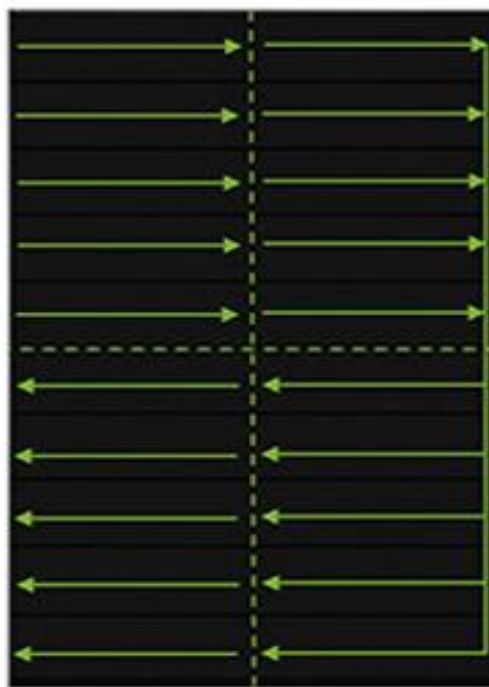
Povećana otpornost na vremenske uslove jer se izbegavaju mikropukotine ćelija koje nastaju tradicionalnim lemljenjem traka.

Moduli su fleksibilni, povećana otpornost na sve vrste vremenskih uslova i na pritisak, pogodni za sve vrste terena.

Smanjeni troškovi sistema, solarne ćelije ne moraju da budu razmaknute kao kod konvencionalnih solarnih panela pa samim tim površina solarnog panela daje više energije.



Konvencionalni solarni paneli



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