

LET THE SUN DO THE WORK.

EFFICIENCY - /i'fɪznsi/

HALF-CUT TECHNOLOGY
MULTI BUSBAR TECHNOLOGY
HIGH CONVERSION EFFICIENCY
LID RESISTANT
PID RESISTANT
SALT RESISTANT
AMMONIA RESISTANT



KONTAKT



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Solarna energija

ČISTA, SIGURNA I OBNOVLJIVA ENERGIJA

NAJSAVREMENIJA TEHNOLOGIJA

Prva fabrika u Srbiji za proizvodnju poslednje generacije PV modula.
Najviša klasa kvaliteta: dizajnirano, projektovano i proizvedeno u Srbiji.
Sopstvena laboratorija za ispitivanje i testiranje panela.
Mono-kristalni PV moduli - Half-Cut Cells.
Bifacial - Double-Glass [po porudžbini].
Model: DES PV M-10 120/435-455Wp



www.solarnaenergija.net

Standardi: IEC 61215
IEC 61730



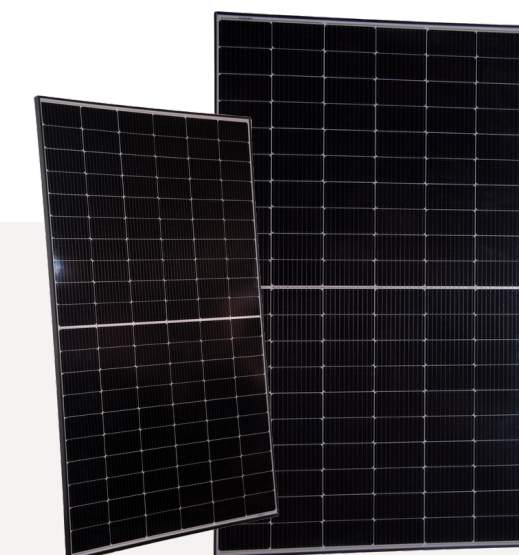
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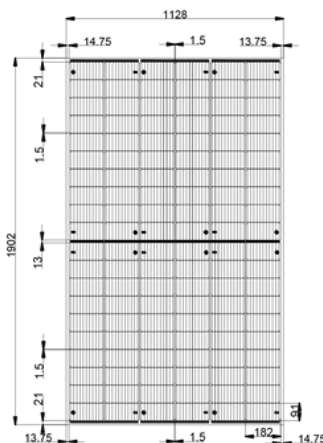
12 godina garancije
na materijal i obradu



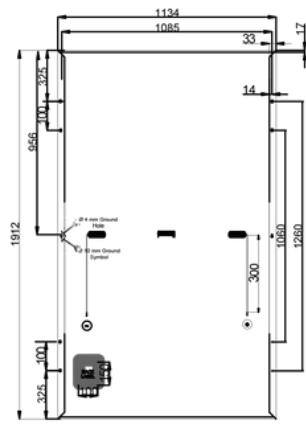
25 godina garancije
na linearni izlaz snage



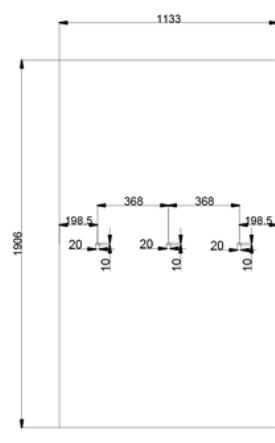
Layup drawing (front view)



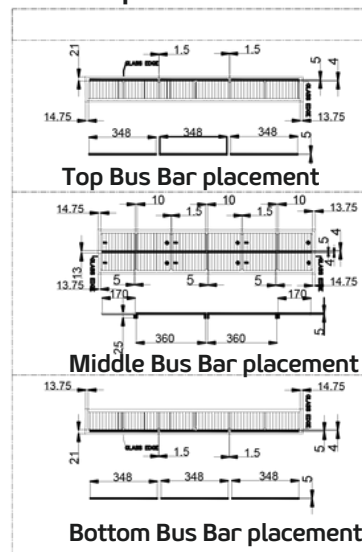
Module drawing (back view)



Module drawing (front view)



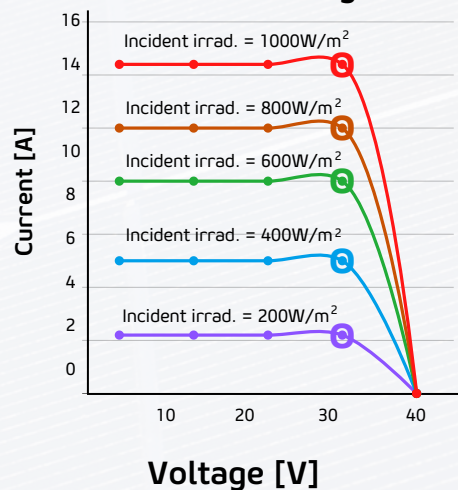
Bus Bar Placement Templates



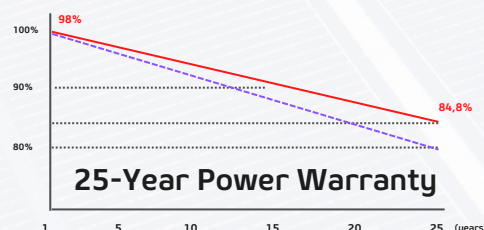
Mechanical & Design specification

Cell type	p-tipe, Half-Cut, 182x91mm
No. of cells	120
Glass	3,2 mm, high transmission, tempered
Encapsulation	EVA
Junction box	IP 68 rated, 3 diode
Frame	35 mm anodised Aluminium alloy
Cable	1 x 4 mm ² , 300 mm or 1200 mm length
Connectors	MC 4 / MC 4 compatible
Dimension	1908 mm x 1134 mm x 35 mm
Weight	23,5 kg
Hail resistance	Max. Ø 25 mm at 23 m/s
Wind load	2400 Pa/ 244 kg/m ²
Mechanical load	5400 Pa/ 550 kg/m ²

Current-Voltage Curve



Additional Value



Note:

DES PRO 144ES - M10

Postoji opcija za narudžbinu alternativnog modela solarnog panela snage 550W, koja je predmet pregovaranja i zavisi od specifičnih zahteva i odluka kupca. There is an option to order an alternative 550W solar panel model, subject to negotiation and dependent on the specific requirements and decisions of the customer

Electrical specifications (STC*):

	435 Wp	440 Wp	445 Wp	450 Wp	455 Wp
Peak Power (Pmax)	435 Wp	440 Wp	445 Wp	450 Wp	455 Wp
Maximum Power Voltage (Vmp)	33,91	34,48	34,77	34,94	35,15
Maximum Power Current (Imp)	12,87	12,91	12,86	12,9	12,94
Open Circuit Voltage (Voc)	40,47	40,67	40,85	41,15	41,21
Short Circuit Current (Isc)	13,48	13,55	13,6	13,64	13,68
Module Efficiency η (%)	20,18	20,43	20,67	20,85	21,03
Power Tolerance (W)	0~+5				
Maximum System Voltage (V)	1500V DC				
Maximum Series Fuse Rating (A)	25A				

*STC: Standard test conditions (Irradiance 1000 W/m², Cell temperature 25°C and air mass of AM1.5)

Packaging information

Pieces per Pallet	30 psc
Pieces per Container	744
Pallet Per Container	24
Container	40 HQ



Temperature characteristics

Operating Temperature (°C)	-40 to +85 °C
Temp. Coefficient of (Isc)	0.045%/°C
Temp. Coefficient of (Voc)	-0.270%/°C
Temp. Coefficient of (Pmax)	-0.350%/°C



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144	120	182					
HALF-CUT CELLS	HALF-CUT CELLS	mm CELL SIZE	LID RESISTANT	PID RESISTANT	SALT CORROSION RESISTANT	SAND RESISTANT	AMMONIA RESISTANT

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