DUSOL

Made in Dubai
U.A.E

DUSOL's Standard range of solar panels are made using standard cells without making any alteration to the cell's physical and/or electrical characteristics. The standard range of DUSOL modules consists of either 36, 60 or 72 cells interconnect- ed to elevate the voltage and keep the current equal to the cells' current. Careful consideration in matching the characteris- tics of the cells is undertaken to maximize the power output by reducing cell-to-module losses.

www.DuSol.ae

Superior Durability , High Efficiency

DS5-36-MONO Series (36 Cells) 210wp

General Description

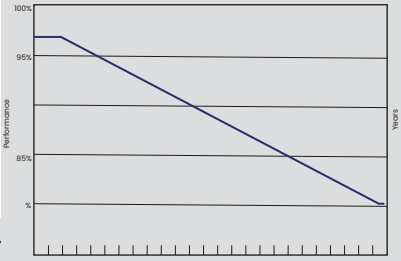
As a solar specialist with more than 30 years of experience in photovoltaic (PV), DuSol has made and continues to makes significant contribution to undertaking ground-breaking progress in solar technology. Dusol photovoltaic modules are de signed for applications with high power requirements. These quality MONO-PERC modules produce a continuous, reliable yield, even under demanding operational conditions. All DuSol DS series modules offer system integration configurations which are optimal both technically and economically and are suitable for installations in on and off-grid PV systems.

Future

High-performance photovoltaic modules made of MONO-PERC (158.75mm)^2 2 silicon DuSol solar cells with module efficiencies of 20.5% or higher.

- 5 busbar technology for enhancing the power output.
- Anti-reflex coating to increase light absorption.
- Production controlled positive power tolerance from 0 to +5%.
- Only modules will be delivered that have specific power or more for high energy yield.

- Delivery of modules in 5watt intervals.
- Improved temperature coefficient to reduce power losses at higher temperatures.
- High power performance even at lower irradiation.



Quality PV Modules from DuSol

Continual checks guarantee a consistently high level of quality. Every module undergoes visual, mechanical, and electrical inspection. This is recognizable by

- 10 years product guarantee.
- 25 years linear performance guarantee.
- Minimum 96% of the specified minimum power output during the first year.
- Modular design gives the end customers the power of choice of capacity
- Compatible with most of the available Hybrid inverters
- Maximum 0.667% annual reduction of the power output for the following 24 years.

Desert sand storm test passed **(Albarubens Lab)**

Salrt spray test passed

Certificates and approvals

All modules are tested and Certified according to

- IED/EN 61215 and IEC/.EN 61730, Application class A
- Protection class / CE
- ISO9001 (DAC)

Electrical Specification (STC)

		DS536210M	
Nominal Power	Pmax	210	W
Open-circuit Voltage	Voc	24.91	V
Short Circuit Current	Isc	9.94	A
Voltage at Maximum Power	Vmpp	22.17	V
Maximum Power Current	Impp	9.47	A
Efficiency Module	n	20.8	%

STC Standard Test Conditions: Irradiance 1,000W/m2,AM 1.5, Cell Temperature 25'C. Rated Electrical Characteristics are within+ % of the indicated values of Isc, Voc,and 0 to 5% of Pmax (power measurement tolerance ± 5%).

Electrical Specification (NOCT)

		DS536210M	
Nominal Power	Pmax	155.43	W
Open-circuit Voltage	Voc	23.04	V
Short Circuit Current	Isc	7.95	A
Voltage at Maximum Power	Vmpp	20.31	V
Maximum Power Current	Impp	7.65	A
Cell Tem (‘C)	T deg	47.5	°C

NOCT (47.5°C): Module operating temperature at 800 W/m² irradiance, air temperature of 20°C, wind speed of 1 m/s

Limits

Max Permissible System Voltage	600VDC
Max Reverse Current	14A
Operating Tem	(-40 to +85) deg C
Max Mechanical Load	2400 N/m^2

Mechanical Data

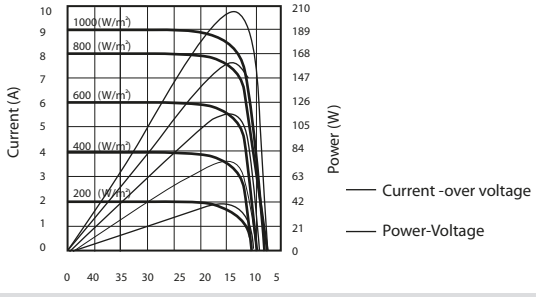
Lenght	1500mm(+ / -3.0 mm)
Width	680mm (+ / -2.0mm)
Depth	35mm(+/-0.8mm)
Weight	12.5Kg

Temperature Co -effcient

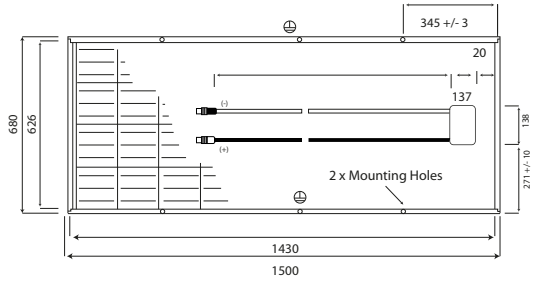
Pmax	(-0.44) %/℃
Voc	(-0.329) % /℃
Isc	(+0.038) % /℃

Characteristics

Characteristics curves: Current / Power against voltage (cell temperature: 25 C)



Rear View



All the measurements are in mm

General Data

Cell Type	Mono PERC, 5BB (158.75x158.75)mm^2, 36 cells in series
Front Glass	3.2mm Tempered low iron pattern glass AR coated
Module Frame	Anodized Aluminium, Silver
Connection Box	PPO,PA, IP67, 138x137x26mm 2by pass diode
Cable	4mm2, Length 1000mm
Connector	SMK (MC4 Compatible), typ CCT 9901-2361F/2451F (katalognr. P51-75=H/R51-7), IP67

Registration

DuSol Solar guarantees the safety, quality and value of your product over many years the only thing we ask you to do is to register your modules with the serial number, so that we can send you the guarantee certificate to register your modules quickly and easily at **www.DuSol.ae**

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