

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 interconnected to elevate the voltage and keep the current equal to the cells' current. Careful consideration in matching the characteristics of the cells is undertaken to maximize the power output by reducing cell-to-module losses.

www.DuSol.ae

Superior Durability, High Efficiency



DS5-72M2 Series (72 cells) 380wp | 385wp | 390wp | 395wp | 415wp



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 groundbreaking progress in solar technology. Dusol photovoltaic modules are designed 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 (158.75 mm) 2 silicon DuSol solar cells with module efficiencies of 20.5% or higher.

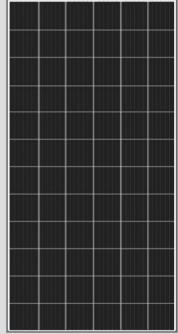
- 5 busbar technology for enhancing the power output.
- · Anti-reflex coating to increase light absorption.
- Production controlled positive power tolerance from 0 to +5%.
- Only modules will be delivered that have specific power or more for high energy
- · Delivery of modules in 5-watt intervals.
- Improved temperature coefficient to reduce power losses at higher temperatures.
- High power performance even at lower irradiation.

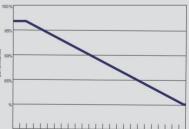


Quality PV Modules from DuSol

Continual checks guarantee a consistently high level of quality. Every module undergoes visual, mechanical, and electrical inspection. This is recognizable by means of the original DuSol label, the serial number, and the DuSol guarantee:

- 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.











All modules are tested and certified according to:

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



Electrical Specifications (STC)

		DS572380M	DS572385M	DS572390M	DS572395M	DS 57241	5 M
Nominal Power	Pmax	380	385	390	395	415	W
Open-circuit Voltage	Voc	48.96	49.26	49.46	49.5	49.77	V
Short Circuit Current	Isc	9.83	9.85	9.88	9.89	9.93	Α
Voltage at Maximum Power	Vmpp	40.99	41.39	41.66	42.02	43.63	V
Maximum Power Current	Impp	9.27	9.3	9.36	9.4	9.51	Α
Efficiency Module	m	19.33	19.59	19.84	20.10	21.11	%

STC = Standard Test Conditions: Irradiance 1,000/m,AM 1.5, Cell Temperature 25C Rated Electrical Characteristics are within + % of the indicated values of lsc, Voc,= and 0 to 5% of Pmax (power measurement tolerance ± 3%).

Electrical Specifications (NOCT)

		DS572380M	DS572385M	DS572390M	DS572395M	DS 572415 M
Nominal Power	Pmax	280.86	284.7	288.49	292.2	307.14
Open-circuit Voltage	Voc	45.23	45.53	45.66	45.77	46.04
Short Circuit Current	Isc	7.86	7.88	7.9	7.9	7.94
Voltage at Maximum Power	Vmpp	37.26	37.67	37.94	38.29	39.91
Maximum Power Current	Impp	7.53	7.55	7.60	7.63	7.69
Cell Temp ('C)	47.5	47.5	47.5	47.5	47.5	47.5

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		1500 VDC
Max Reverse Current		15A
Operating Tem	(-40 to	o +85) deg C
Max Mechanical Load		2400 N/m ²

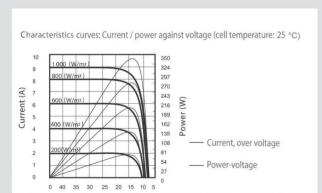
Mechanical Data

Length	1978(+/-3.0mm)
Width	1001(+/-2.0mm)
Depth	35mm(+/-0.8mm)
Weight	20.50kg

Temperature Co - efficient

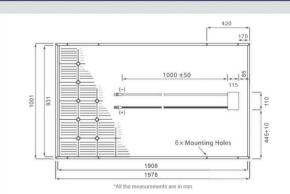
Pmax	(-0.44) %/°C
Voc	(-0.329) %/°C
Isc	(+0.038) %/°C

Characteristics





Rear View



General Data

Cell Type Mono-co	rystalline 5BB Cells, 158.75mmx158.75mm, 72 cells in series
Front Glass	Tempered Low Iron Pattern Glass, 3.2mm
Module Frame	Anodized Aluminium, Silver
Connection Box	PPO Plastic, IP65, 110x108x19 xmm, 3by pass diodes
Cable	4mm2, length 1000mm
Connector	SMK (MC4 Compatible), Typ CCT 9901-2361F/2451F (katalognr. P51-7H/R51-7), IP67

Please only use SMK connector of said series or MultiContact AG connector (PV KST04 / PV KBT04)

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

www.DuSol.ae Superior Durability, High Efficiency

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