

DuSol PV modules are proudly manufactured using state of the art machines using high quality raw-materials

www.DuSol.ae

Superior Durability, High Efficiency



General Description

As a solar specialist with more than 30 years of experience in photovoltaic (PV), DuSol makes significant contributions to groundbreaking progress in solar technology. Dusol photovoltaic modules in the DS series are designed for applications with high power requirements.

These quality Mono-crystalline modules produce a continuous, reliable yield, even under demanding operational conditions.

All DuSol DS series modules offer system integration which is 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-crystalline(156.5 mm) 2 silicon DuSol solar cells with module efficiencies of 16.5% or higher.

- 3 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 the specific power or more for high energy yield.

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

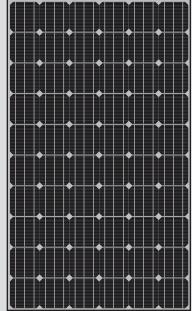


Quality PV Modules from DuSol

Continual checks guarantee a consistently high level of quality. Every modules undergoes visual, mechanical and electrical inspection.

This is recognisable 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.
- Maximum 0.667% annual reduction of the power output for following 24 years.





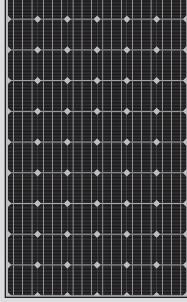




Certificates and approvals

All modules are tested and certified according to:

- IEC/EN 61215 and IEC/.EN 61730, Application class A
- Protection class / CE



Electrical Specifications (STC)

		DS60275M	DS60280M	DS60285M	DS60290N	1
Nominal Power	Pmax	275	280	285	290	Wp
Open-circuit Voltage	Voc	38.46	38.76	38.88	39	V
Short Circuit Current	Isc	8.95	9	9.06	9.1	А
Voltage at Maximum Power	Vmpp	32.2	32.48	32.75	33.06	V
Maximum Power Current	Impp	8.54	8.62	8.7	8.77	А
Efficiency Module	m	16.92	17.23	17.54	17.84 %	

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



Electrical Specifications (NOCT)

		DS60275M	DS60280M	DS60285M	DS60290M	
Nominal Power	Pmax	202.24	206.06	209.79	213.53	Wp
Open-circuit Voltage	Voc	35.36	35.66	35.76	35.90	V
Short Circuit Current	Isc	7.16	7.2	7.25	7.28	А
Voltage at Maximum Power	Vmpp	29.10	29.36	29.65	29.96	V
Maximum Power Current	Impp	6.95	7.01	7.08	7.13	А

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 Vo	1000VDC	
Max Reverse Current		15A
Operating Tem	(-40 to -	+85) deg C
Max Mechanical Load		2400 N/m²



Mechanical Data

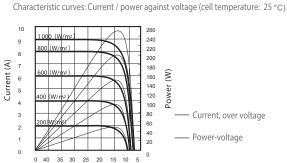
Length	1655(+/-3.0mm)
Width	990mm(+/-2.0mm)
Depth	42mm(+/-0.8mm)
Weight	19.7kg



Temperature Co - efficient

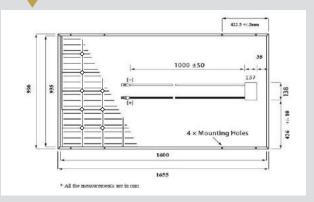
▼	
Pmax	(-0.44) %/°C
Voc	(-0.329) %/°C
Isc	(+0.038) %/°C

Characteristics





Rear View



General Data

Cell Type Mono-crystalline 3BB Cells, 156.5mmx156.5mm, 60 cells in series		
Front Glass	Tempered Low Iron Pattern Glass, 3.2mm	
Module Frame	Anodized Aluminium, Silver	
Connection Box	PPO Plastic, IP65, 137x138x26xmm, 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

Email: Info@dusol.ae URL: ww.Dusol.ae