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**Solar Panel Guide
Specification Data Sheet**

**Dusol
DS5-36(M2)
DS536195M**

Also available on the web at
EnergyPal.com/dusol-solar-panels/ds536195m



DS536-M Series (36 Cells) 190W | 195W | 200W



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 Perc 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 Perc mono-crystalline(156.75mm) silicon. DuSol solar cells with module efficiencies of 20% 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 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 irradiances.

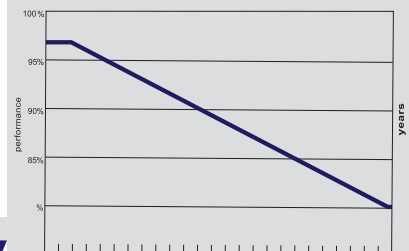
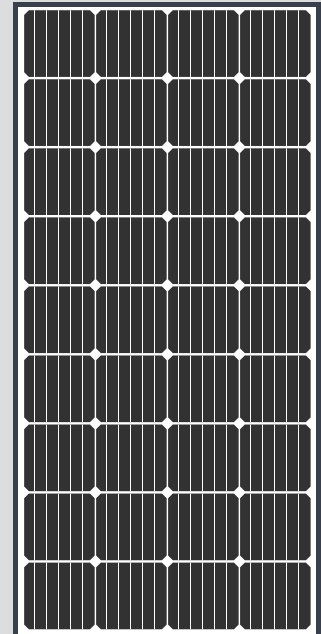


Quality PV Modules from DuSol

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.



Desert sand storm
test passed
(Albarubens Lab)



Salt spray test
passed
(IEC 61701)



Certificates and approvals

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)

		DS536190M	DS536195M	DS536200M	
Nominal Power	P _{max}	190	195	200	W
Open-circuit Voltage	V _{oc}	24.5	24.73	24.86	V
Short Circuit Current	I _{sc}	9.84	9.88	9.9	A
Voltage at Maximum Power	V _{mpp}	20.47	20.83	21.2	V
Maximum Power Current	I _{mp}	9.28	9.36	9.43	A
Efficiency Module	n	19.37	19.88	20.38	%

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 I_{sc}, V_{oc}, and 0 to 5% of P_{max} (power measurement tolerance ± 5%).



Electrical Specifications (NOCT)

		DS536190M	DS536195M	DS536200M	
Nominal Power	P _{max}	140.44	144.24	148.00	W
Open-circuit Voltage	V _{oc}	22.63	22.86	22.99	V
Short Circuit Current	I _{sc}	7.87	7.9	7.92	A
Voltage at Maximum Power	V _{mpp}	18.61	18.97	19.34	V
Maximum Power Current	I _{mp}	7.54	7.6	7.65	A
Cell Tem (°C)	T deg	47.5	47.5	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

Length	1480(+/-3.0mm)
Width	670mm(+/-2.0mm)
Depth	35mm(+/-0.8mm)
Weight	12kg



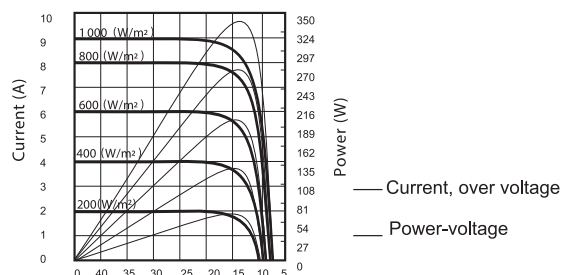
Temperature Co - efficient

P _{max}	(-0.44) %/°C
V _{oc}	(-0.329) %/°C
I _{sc}	(+0.038) %/°C

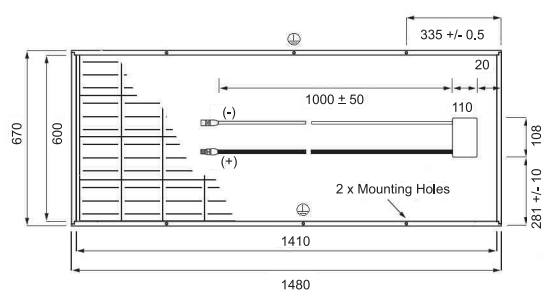


Characteristics

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



Rear View



* All the measurements are in mm



General Data

Cell Type	Perc mono-crystalline 5BBCells, 156.75mmx156.75mm, 36cells in series
Front Glass	Tempered Low Iron Pattern Glass, 3.2mm
Module Frame	Anodized Aluminium, Silver
Connection Box	PPO PA, IP67, 110x108x19xmm, 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 or MultiContact AG connector (PV KST04)



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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