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Solar Panel Guide Specification Data Sheet

**Dusol
DS36
DS36 150**

Also available on the web at
EnergyPal.com/dusol-solar-panels/ds36-150



DS36 Series (36 Cells) | 145 wp | 150 wp | 155 wp | 160 wp

General Description

As a solar specialist with more than 30 year 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 polycrystalline 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 polycrystalline (156.5 mm)² silicon Solar cells with module efficiencies of upto 15.2%.

- 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 specified power or more for high energy yield.

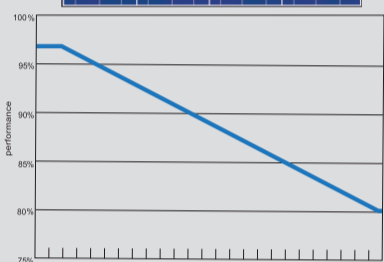
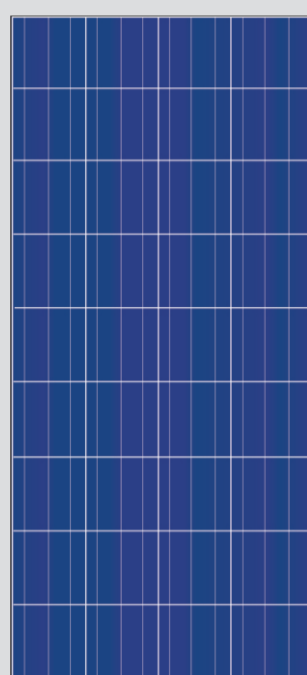
- Delivery of modules in 5 watt intervals.
- Improved temperature coefficient to reduce power losses at higher temperatures.
- High power performance even at lower irradianations.

Quality PV module DuSol

Continual checks guarantee a consistently high level of quality. Every module 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)

		DS36145	DS36150	DS36155	DS36160	
Nominal power	P _{max}	145	150	155	160	Wp
Open-circuit voltage	V _{oc}	22.32	22.5	22.8	23.04	V
Short circuit current	I _{sc}	8.57	8.71	8.79	8.9	A
Voltage at maximum power	V _{mpp}	18.57	18.4	18.84	19.14	V
Maximum power current	I _{mpp}	7.95	8.15	8.23	8.36	A
Efficiency module	m	14.78272	15.292468	15.802217	16.311966	%

STC = Standard Test Conditions: Irradiance 1,000/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 + %3).

Electrical Specifications (NOCT)

		DS36240	DS36250	DS36260	DS36270	
Nominal power	P _{max}	106.3177	110.064	113.8679	117.65	Wp
Open-circuit voltage	V _{oc}	20.457	20.630	20.937	21.17	V
Short circuit current	I _{sc}	6.856	6.968	7.032	7.12	A
Voltage at maximum power	V _{mpp}	16.377	16.537	16.977	17.27	V
Nominal Operating Cell Temperature	I _{mpp}	47.5	47.5	47.5	47.5	A

NOCT: 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	15A
Operating Tem	(-40to 85 deg C
Max Mechanical Load	2400 N/m ²

Mechanical Data

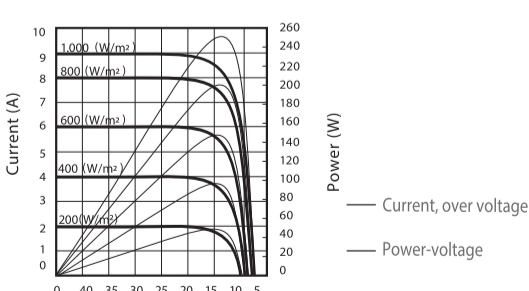
Length	1480(+/-3.00mm)
Width	67(+/-2.0mm)
Depth	34.5mm
Weight	12.4kg

Temperature Co - efficient

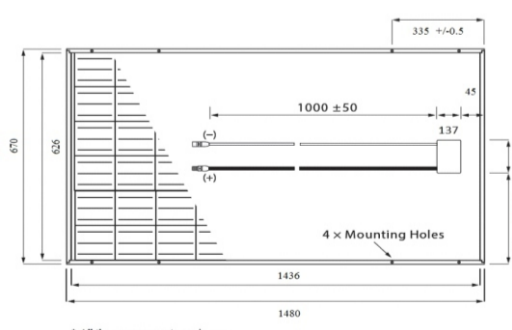
P _{max}	(-0.44)%/degC
V _{oc}	(-0.329)%/degC
I _{sc}	(+0.038)%/degC

Characteristics

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



Rear View



General Data

Cell Type	Polycrystalline cells , 156.5mmx156.5mm, 36 cells in series
Front Glass	Tempered Low Iron Pattern Glass, 3,2mm
Module Frame	Anodized Aluminium, Silver
Connection Box	PPO Plastic, IP65, 137x138x26mm, 3by pass diodes
Cable	4mm ² , length 1000mm
Connector	Mc4, IP67 Class II , PC/PA

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 register your modules quickly and easily at www.DuSol.ae