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Solar Panel Guide Specification Data Sheet

Dusol
DS3640
DS3644

Also available on the web at
EnergyPal.com/dusol-solar-panels/ds3644



DS36 Series (39mm Cells) 39wp | 40wp | 42wp | 44wp



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 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 DuSol solar cells with module efficiencies of 15.2% 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 3 watt intervals.
- Improved temperature coefficient to reduce power losses at higher temperatures.
- High power performance even at lower irradianations.

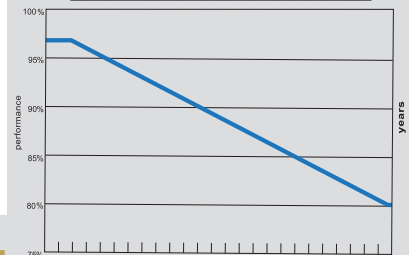
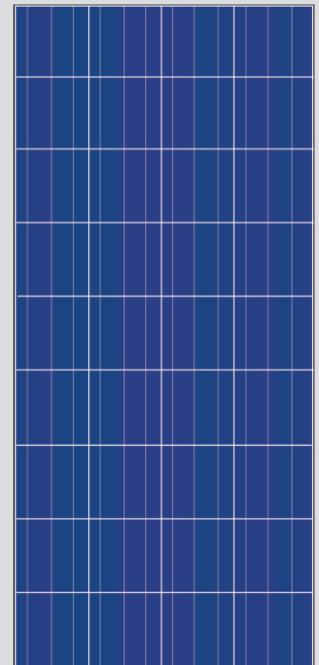


Quality PV Modules from DuSol

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
 (IEC61701)



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)

		DS3639	DS3640	DS3642	DS3644	
Nominal Power	Pmax	39	40	42	44	Wp
Open-circuit Voltage	Voc	22.12	22.3	22.6	22.84	V
Short Circuit Current	Isc	2.36	2.40	2.49	2.58	A
Voltage at Maximum Power	Vmpp	18.67	18.5	18.94	19.24	V
Maximum Power Current	Impp	2.09	2.16	2.22	2.29	A
Efficiency Module	m	1363	13.98	14.68	15.38	%

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



Electrical Specifications (NOCT)

		DS3639	DS3640	DS3642	DS3644	
Nominal Power	Pmax	28.57	29.32	30.83	32.32	Wp
Open-circuit Voltage	Voc	20.25	20.43	20.74	20.97	V
Short Circuit Current	Isc	1.88	1.92	1.9	2.064	A
Voltage at Maximum Power	Vmpp	16.80	16.63	17.07	17.37	V
Maximum Power Current	Impp	1.70	1.76	1.80	1.86	A

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	1000VDC
Max Reverse Current	15A
Operating Tem	(-40 to +85) deg C
Max Mechanical Load	2400 N/m ²



Mechanical Data

Length	435(+/-3.0mm)
Width	670mm(+/-2.0mm)
Depth	34mm(+/-0.8mm)
Weight	4kg



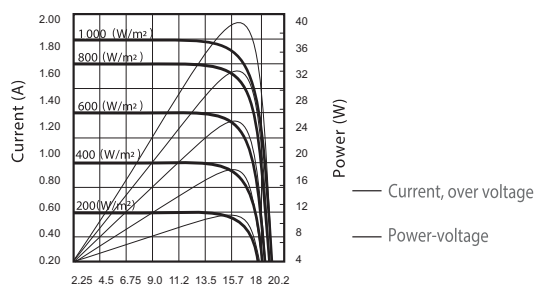
Temperature Co - efficient

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

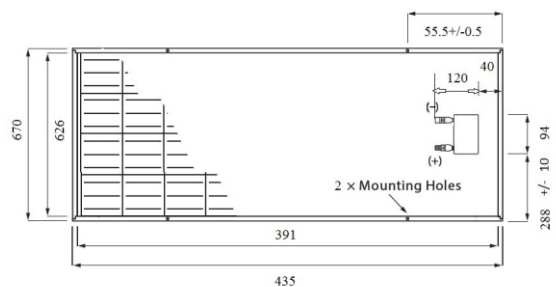


Characteristics

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



Rear View



*All the measurements are in mm



General Data

Cell Type	Polycrystalline 3BB Cells, , 36 cells in series
Front Glass	Tempered Low Iron Pattern Glass, 3.2mm
Module Frame	Anodized Aluminium, Silver
Connection Box	PPO Plastic, Ip65, (120x94)mm, 2by pass diodes
Cable	N/A
Connector	N/A

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

www.DuSol.ae
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Office: # 101 - 112, Al Sharafi Building, Next to Malabar Supermaket, Naif, DEIRA, Dubai
P O Box: 381057 United Arab Emirates
Phone: +971-4-2231185 Fax: +971-4-2271505
Email: Info@dusol.ae URL: www.Dusol.ae