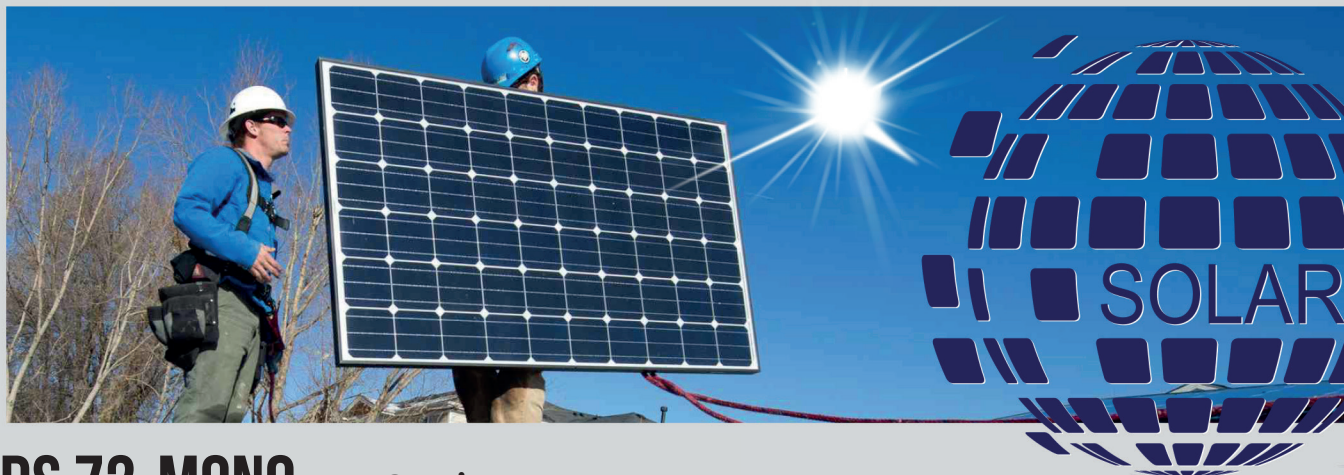




DS 72-MONO

Series (72Cells) 415wp



General Description

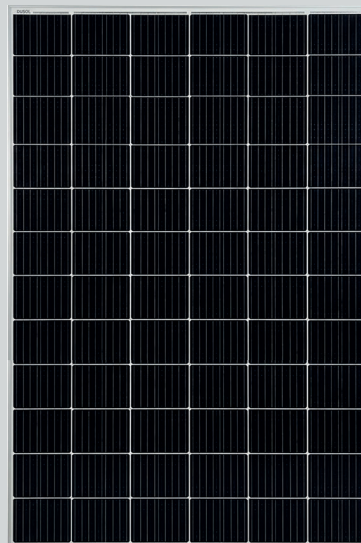
As a solar specialist with more than 30 years of experience in photovoltaic (PV), DuSol has made and continues to make significant contribution to undertaking ground-breaking progress in solar technology. DuSol photovoltaic modules are designed for applications with high power requirements. These quality 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.



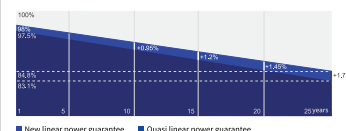
Future

High-performance photovoltaic modules made of MONO (182x130)mm² silicon DuSol solar cells with module efficiencies of 20.5% or higher.

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



Linear attenuation of 0.55% per year for 25 years



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

- 10 years product guarantee.
- 25 years linear performance guarantee.
- Minimum 97% 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 0.55% annual reduction of the power output for the following 25 years.



Desert sand storm
test passed
(MITC INTERCERT)



Salt spray test
passed



Certificates and approvals

All modules are tested and Certified according to

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

Electrical Specification (STC)

DS72415M		
Nominal Power	Pmax	415W
Open-circuit Voltage	Voc	45.9V
Short Circuit Current	Isc	11.3A
Voltage at Maximum Power	Vmpp	39.6V
Maximum Power Current	Impp	10.5A
Efficiency Module	n	22.45%

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 Isc, Voc,and 0 to 5% of Pmax (power measurement tolerance ± 5%).

Electrical Specification (NOCT)

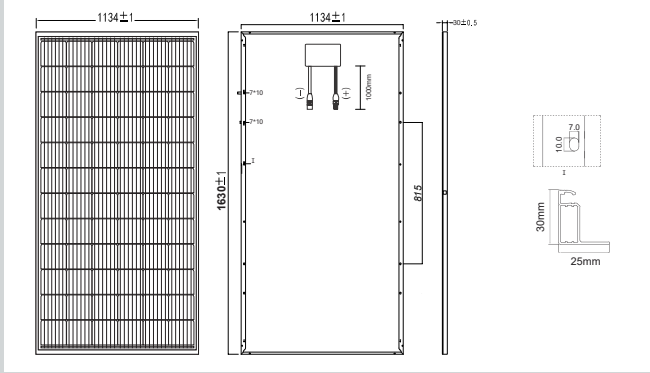
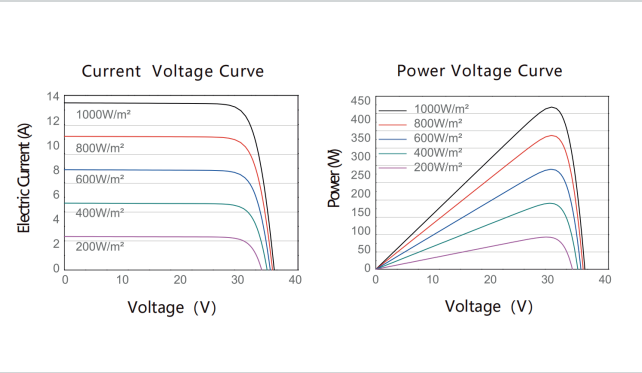
DS72415M		
Nominal Power	Pmax	305.04W
Open-circuit Voltage	Voc	42.17V
Short Circuit Current	Isc	9.04A
Voltage at Maximum Power	Vmpp	35.79V
Maximum Power Current	Impp	8.52A
Cell Tem (°C)	T deg	47.50°C

NOCT (47.5°C): Module operating temperature at 800 W/m² irradiance, air temperature of 20°C, wind speed of 1 m/s

Limits		Mechanical Data		Temperature Co -efficient	
Max Permissible System Voltage	1500VDC	Lenght	1630mm(+ / -3.0 mm)	Pmax	(-0.34) %/°C
Max Reverse Current	20A	Width	1134mm(+ / -2.0mm)	Voc	(-0.27) % /°C
Operating Tem	(-40 to +85) deg C	Depth	30mm(+/-0.8mm)	Isc	(+0.045) % /°C
Max Mechanical Load	2400 N/m ²	Weight	17.5kg		

Characteristics

Rear View



General Data

Registration

Cell Type	Mono-PERC 16BB Cells (182x130)mm ² 72 cells only
Front Glass	Tempered Low Iron Pattern Glass, 3.2mm
Module Frame	Anodized Aluminium, Silver
Connection Box	PPO Plastic, IP68, 3by pass diodes
Cable	4mm2, Lenght 1000mm
Connector	SMK (MC4 compatible), Typ CCT 9901-2361F/2451F (katalognr. P51-7H/R51-7), IP67

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**