

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

www.DuSol.ae

Superior Durability, High Efficiency



DS10-144-MONO Series (144 Cells) 550wp



General Description

As a solar specialist with more than 30 years of experience in photovoltaic (PV), DuSol has made and continues to makes significant contribution to undertaking groundbreaking progress in solar technology. Dusol photovoltaic modules are de signed 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-PERC (182mm)² silicon DuSol solar cells with module efficiencies of 20% 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 5 watt intervals.
- Improved temperature coefficient to reduce power losses at higher temperatures.
- High power performance even at lower irradiation.



Quality PV Modules from DuSol

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

- 10 years product guarantee.
- 25 years linear performance guarantee.
- · Minimum 96% 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 0.667% annual reduction of the power output for the following 24 years.











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)

	DS10144550M		
Nominal Power	Pmax	550	W
Open-circuit Voltage	Voc	49.79	V
Short Circuit Current	Isc	14.00	А
Voltage at Maximum Power	Vmpp	41.27	V
Maximum Power Current	Impp	13.33	А
Efficiency Module	n	21.28	%

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 ± 3%).

Electrical Specification (NOCT)

		DS10144550M	
Nominal Power	Pmax	417	W
Open-circuit Voltage	Voc	48.10	V
Short Circuit Current	Isc	11.07	А
Voltage at Maximum Power	Vmpp	39.90	V
Maximum Power Current	Impp	10.45	А
Cell Tem ('C)	T deg	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 Vo	ltage 1500VDC
Max Reverse Current	25A
Operating Tem	(-40 to +85) deg C
Max Mechanical Load	2400 N/m ²

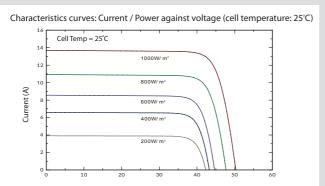
Mechanical Data

Lenght	2279mm(+ / -3.0 mm)
Width	1134mm (+ / -2.0mm)
Depth	35mm(+/-0.8mm)
Weight	28.50Ka

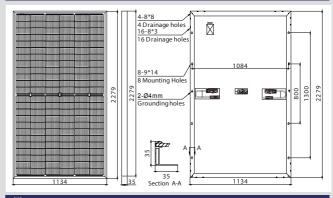
Temperature Co -effcient

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

Characteristics



Rear View



General Data

Cell Type	Mono-PERC 10BB Cells (182mm x 91mm) 72 cells in series and 72 cells in parallel
Front Glass	Tempered Low Iron Pattern Glass, 3.2mm
Module Frame	Anodized Aluminium, Silver
Connection Box	PPO Plastic, IP68, 3by pass diodes
Cable	4mm2, Length 300mm
Connector	SMK (MC4 Compatible), Typ CCT 9901-2361F/2451F (katalognr. P51-7H/R51-7), IP67

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

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