



solar electricity
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72S SERIES

Solar Photovoltaic Modules

Mono-crystalline model in 300 / 310 / 320 watts

Poly-crystalline model in 290 / 300 / 310 watts



10 WARRANTY YEARS
Structure, material workmanship warranty

12 WARRANTY YEARS
Linear warranty, 90% power output

25 WARRANTY YEARS
Linear warranty, 80% power output



Optional



PID Free



Ammonia Resistance Rated



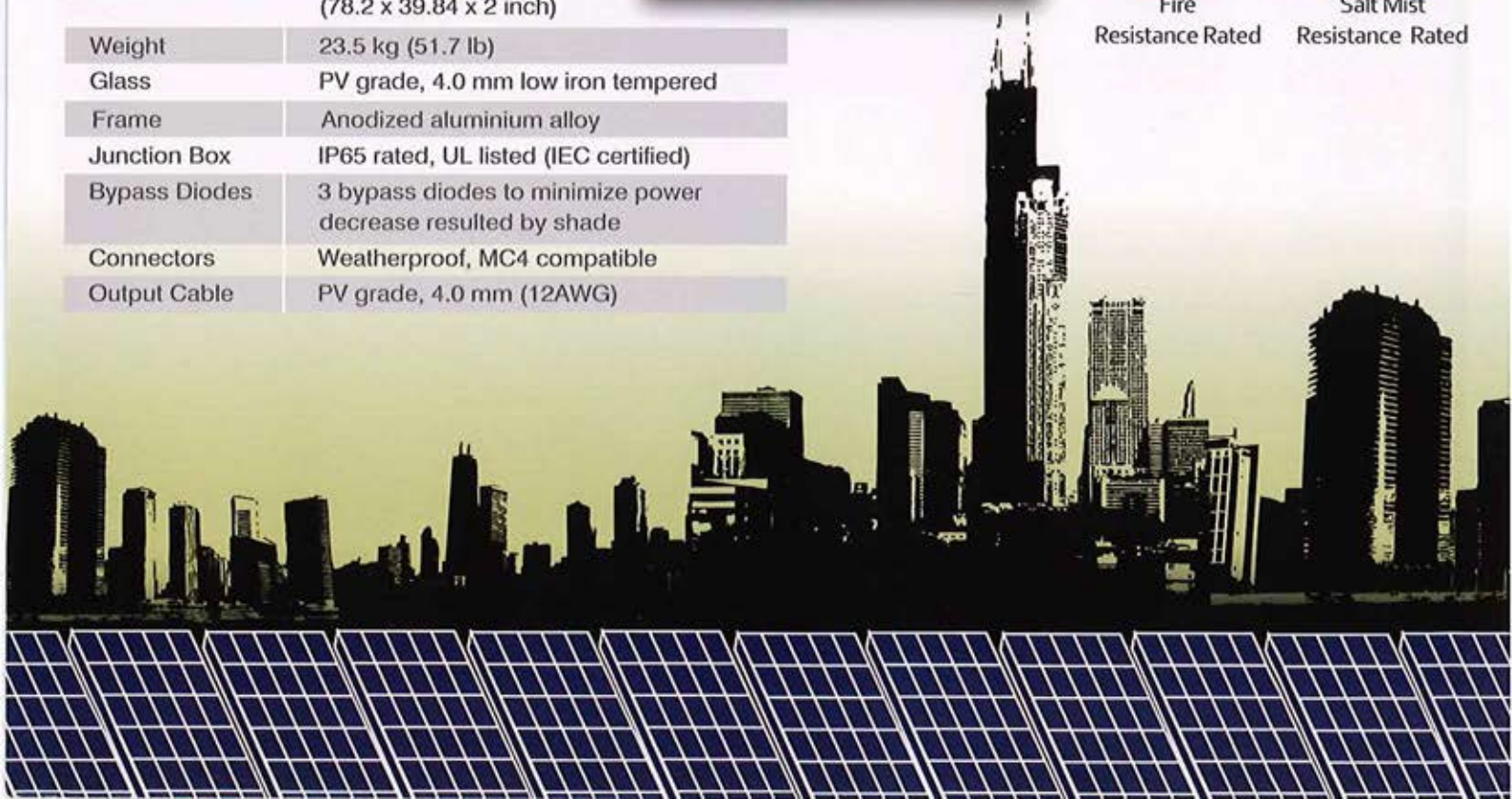
Fire Resistance Rated



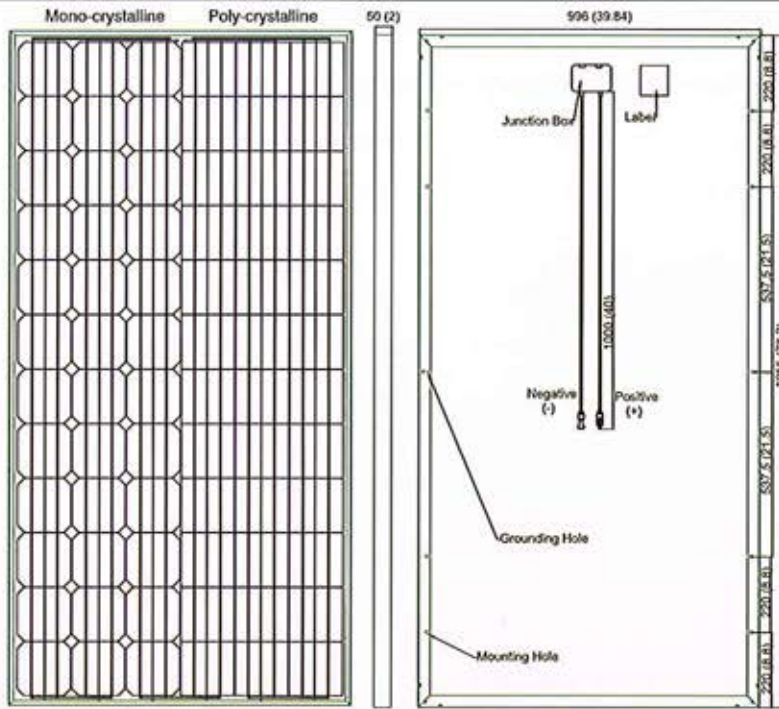
Salt Mist Resistance Rated

Mechanical Data

Dimension	1955 x 996 x 50 mm (78.2 x 39.84 x 2 inch)
Weight	23.5 kg (51.7 lb)
Glass	PV grade, 4.0 mm low iron tempered
Frame	Anodized aluminium alloy
Junction Box	IP65 rated, UL listed (IEC certified)
Bypass Diodes	3 bypass diodes to minimize power decrease resulted by shade
Connectors	Weatherproof, MC4 compatible
Output Cable	PV grade, 4.0 mm (12AWG)



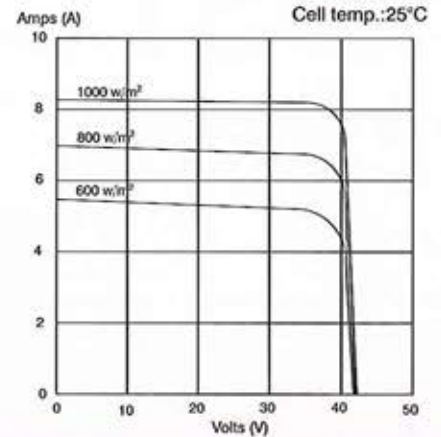
Product Drawing



Unit: mm (inch)

I-V Curves

ELECTRICAL CHARACTERISTICS



Electrical Parameter

Power Tolerance	+ / -3%
Operating Temp.	-40 to +85 °C
Max System Voltage (UL & IEC)	600V, 1000V
Max Series Fusing	15 A
Nominal Operating Cell Temp.	46 + / -2 °C

Mono-crystalline model

Electrical Data

DSTXXXM6-72S

Parameter	Symbol	Value	Value	Value
Maximum Power	P _{max} (W)	300	310	320
Maximum Power Voltage	V _{mpp} (V)	36.68	36.96	37.17
Maximum Power Current	I _{mpp} (A)	8.18	8.40	8.61
Open Circuit Voltage	V _{oc} (V)	45.85	46.20	46.45
Short Circuit Current	I _{sc} (A)	9.09	9.33	9.57
Module Efficiency	(%)	15.41	15.92	16.43
Temperature Coefficient	P _{max}		- 0.41% / °C	
	V _{oc}		- 0.32% / °C	
	I _{sc}		0.09% / °C	

Poly-crystalline model

Electrical Data

DSTXXXP6-72S

Parameter	Symbol	Value	Value	Value
Maximum Power	P _{max} (W)	290	300	310
Maximum Power Voltage	V _{mpp} (V)	36.71	37.36	38.06
Maximum Power Current	I _{mpp} (A)	7.90	8.03	8.15
Open Circuit Voltage	V _{oc} (V)	47.06	47.92	48.80
Short Circuit Current	I _{sc} (A)	8.78	8.92	9.05
Module Efficiency	(%)	14.89	15.41	15.92
Temperature Coefficient	P _{max}		- 0.38% / °C	
	V _{oc}		- 0.30% / °C	
	I _{sc}		0.07% / °C	

Packaging

Container	20' GP	40' GP
Units per Pallet	18	18
Units per Container	180	432

Remarks

- Values at Standard Test Conditions STC.
(Air Mass AM1.5, Irradiance 1000W/m², Cell Temperature 25°C)
- The information contained herein is subject to change without notice.
- Drawings and images are not to scale. For detailed dimensions and tolerances, see content.
- Electrical equipment, only qualified personnel should install or perform maintenance.
- DS Technology reserves the rights of final interpretation and revision on this datasheet.

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