

KEY SELIENT FEATURES



Industry leading lowest temperature co-efficient of power



Indutry leading 12 years product warranty



Excellent low irradiance performance



Excellent PID resistance



Positive power tolerance of 3%



Dual stage 100% EL inspection gurantee defect-free product



Module Imp binning radically reduces string mis-match losses

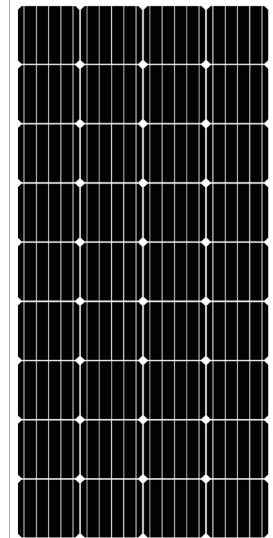


Warranted reliability and stringent quality assurances are well beyond cetified requirements



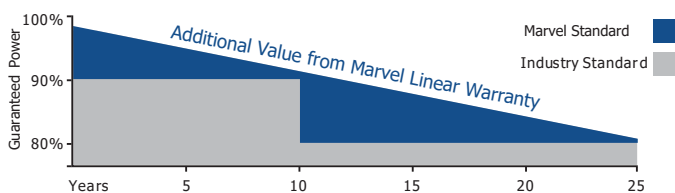
Certified to withstand severe environmental conditions

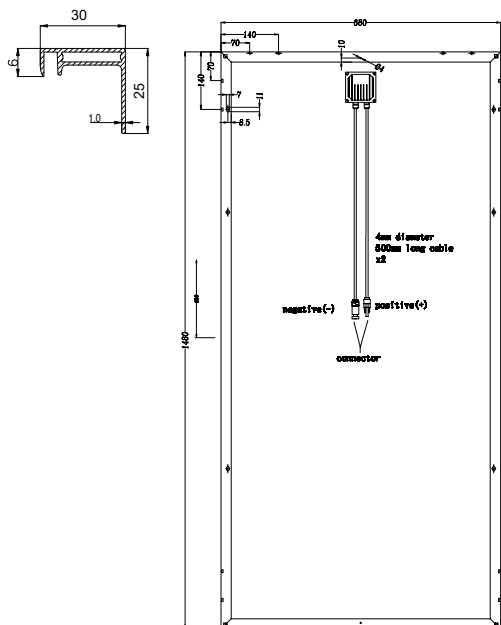
- Anti-reflective & anti-soiling surface minimise power loss es from dirt and dust
- Severe salt mist, ammonia & blown sand resistance for seaside, farm and desert environments
- Excellent mechanical load 2400Pa & snow load 5400Pa resistance



LINEAR PERFORMANCE WARRANTY

12 Year Product Warranty / 25 year Linear Power Warranty





ELECTRICAL DATA (STC)

Model Number	MSP-170W	MSP-175W	MSP-180W	MSP-185W	MSP-190W
Rated Power in Watts-P _{max} (Wp)	170	175	180	185	190
Open Circuit Voltage-V _{oc} (V)	22.8	23.0	23.2	23.4	23.6
Short Circuit Current-I _{sc} (A)	9.25	9.42	9.60	9.78	9.85
Maximum Power Voltage-V _{mpp} (V)	18.8	19.0	19.2	19.4	19.58
Maximum Power Current-I _{mpp} (A)	9.05	9.22	9.38	9.54	9.71
Module Efficiency (%)	19.2	19.8	20.3	21.0	21.5

STC: Irradiance 1000 W/m², Cell Temperature 25°C, Air Mass AM1.5 according to EN 60904-3.

ELECTRICAL DATA (NOCT)

Model Number	MSP-170W	MSP-175W	MSP-180W	MSP-185W	MSP-190W
Maximum Power-P _{max} (Wp)	137	142	147	151	160
Open Circuit Voltage-V _{oc} (V)	21.4	21.6	21.8	22.0	22.2
Short Circuit Current-I _{sc} (A)	8.20	8.37	8.55	8.72	8.90
Maximum Power Voltage-V _{mpp} (V)	17.60	17.80	18.0	18.2	18.5
Maximum Power Current-I _{mpp} (A)	7.80	7.96	8.14	8.30	8.47

NOCT: Irradiance at 800 W/m², Ambient Temperature 20°C, Wind Speed 1 m/s.

MECHANICAL DATA

Solar cells	Mono crystalline 156.75×156.75 mm
Cell configuration	36 cells (4×9)
Module dimensions	1480×680×30mm
Weight	11kg
Superstrate	3.2 mm, High Transmission, Low Iron, Tempered ARC G glass
Substrate	White Backsheet
Frame	Silver Anodized Aluminium Alloy type 6063T5, Silver Color
J-Box	Potted, IP67, 1000VDC, 3 Schottky bypass diodes
Cables	4.0mm ² (12AWG), 900mm length
Connector	IP67 MC4 Compatible

TEMPERATURE & MAXIMUM RATINGS

Nominal Operating Cell Temperature (NOCT)	45°C ±2°C
Temperature Coefficient of V _{oc}	-0.32%/°C
Temperature Coefficient of I _{sc}	0.05%/°C
Temperature Coefficient of P _{max}	-0.39%/°C
Operational Temperature	-40~+85°C
Maximum System Voltage	1000VDC
Max Series Fuse Rating	15A
Limiting Reverse Current	15A

PACKAGING CONFIGURATION

	40ft	20ft
Number of modules per container	1600	700
Number of modules per pallet	2	2
Number of pallets per container	800	350
Packaging box dimensions (LxWxH) in mm	1570×770 ×82	1570×770 ×82
Box gross weight[kg]	23	23

