



US10-B144- (520 Wp - 550 Wp)



WARRANTY FOR MATERIALS AND PROCESSING



WARRANTY FOR LINEAR POWER OUTPUT

Sunora Solar is committed to providing high-quality solar products in India, and provide world-class performance and mutually beneficial SUNORA SOLAR is a result of Unique Sun Power LLP's effort to increase Customer Values beyond efficiency.

INDUSTRY LEADING PROTECTION



EXCELLENT EFFICIENCY

Excellent module conversion efficiency of up to 21.03%



SUNORA

LOW-LIGHT PERFORMANCE

Advanced glass and cell surface textured design ensure excellent performance in low-light environment



HIGH SAVING

Lower LCOE, reduced BOS cost, shorter payback time



PID RESISTANCE

Excellent Anti-PID Performance gurantee limited power degradation for mass production



IP68 JUNCTION

High waterproof



REDUCED RISK

Reduced hot spot risk with optimized electrical design and lower operating current

ISO 9001:2015, ISO 14001:2015, ISO 45001:2018 Certified Facility

UNIQUE SUN POWER LLP

BL No. 2281/2/1/1, Sub Plot. 1-A, Near Areth Minnor Canal, Village - Tadkeshwar, Ta - Mandvi, Surat. Gujarat, 394170

TOLL FREE: 1800 88 98 0 98

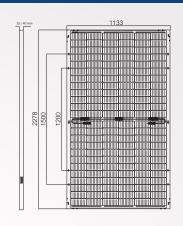




MECHANICAL SPECIFICATION OPERATING PARAMETERS DESIGN (MM)

Solar cells	144 monocrystalline Silicon(PERC), Multi BB			
Encapsulation	Ultra - clear PID free EVA (Ethylene-Vinyl-Acetate)			
Backside	UV protected reflective backsheet			
Frame	Silver Anodized Aluminium Alloy			
Front Glass	3.2mm, High Transmission, AR Coated Tempered Glass			
Dimensions	(L) 2278 mm x (W) 1133 mm x (H) 35mm			
Weight	~28 Kg			
J-box	IP 68 certified, 3 diodes, Split junction box			
Series Fuse Rating	25 A			
Cable	Solar cable 400 mm length			
Connectors	MC4 compatible connectors			
Application Class	Class A			
Electrical Safety	Class			
Fire Safety	Class C (Type 1)			
	Snow load 5400 Pa, Wind load 2400 pa			

Operational Temperature: -40 °C ~ +85 °C			
Power Output Tolerance: 0 ~ +5 W			
Voc and Isc Tolerance: ±3%			
Maximum System Voltage: DC1500V (IEC/UL)			
Maximum Series Fuse Rating: 30A			
Nominal Operating Cell Temperature: 45±2℃			
Safety Protection Class: Class			
Fire Rating: UL type 3			



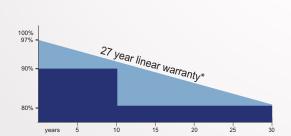
Tolerance: Length: ±2mm Width: ±2mm Height: ±1mm Pitch-row: ±1mm

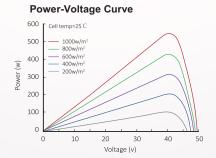
ELECTRICAL CHARACTERISTICS TEST UNCERTANITY FOR PMAX: + 3							FOR PMAX: + 3%		
Model Number	Elite pro - US	Elite pro - US 10 - B144 - (520 WP - 550WP)							
Maximum Power (Pmax/W)	520	525	530	535	540	545	550		
Open Circuit Voltage (Voc/V)	49.10	49.20	49.30	49.42	49.51	49.61	49.70		
Short Circuit Current (Isc/A)	13.32	13.40	13.50	13.56	13.63	13.73	13.82		
Voltage at Maximum Power (Vmp/V)	41.30	41.40	41.48	41.56	41.65	41.77	41.88		
Current at Maximum Power (Imp/A)	12.60	12.69	12.78	12.88	12.97	13.05	13.14		
Module Efficiency (%)	20.18	20.37	20.56	20.76	20.95	21.14	21.34		

STC (Standard Testing Conditions): Irradiance 1000W/r $\hat{\mathbf{n}}$, Cell Temperature 25 C, Spectra at AM1.5 $^{\circ}$

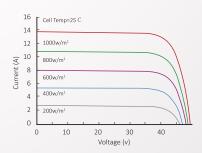
NOCT (Nominal Operating Cell Temperature): Irradiance 800W/ml, Ambient Temperature 20 C, Spectra at AM1.5, Wind at 1m/S

TEMPERATURE RATINGS (STC)		MECHANICAL LOADING	
Temperature Coefficient of Isc	+0.050%/ C	Front Side Static Loading	5400Pa
Temperature Coefficient of Voc	-0.284%/ C	Rear Side Maximum Static Loading	2400Pa
Temperature Coefficient of Pmax	-0.350%/ C	Hailstone Test	25mm Hailstone at the speed of 23m/s





Current-Voltage Curve



PRODUCT CERTIFICATIONS

*We have applied for below certifications: IES 61215: 2016, IS 14286:2010/IES 61215:2005, IS/IEC 61730-1 & 2: 2004 UL 61730-1&2, IEC 61701,

