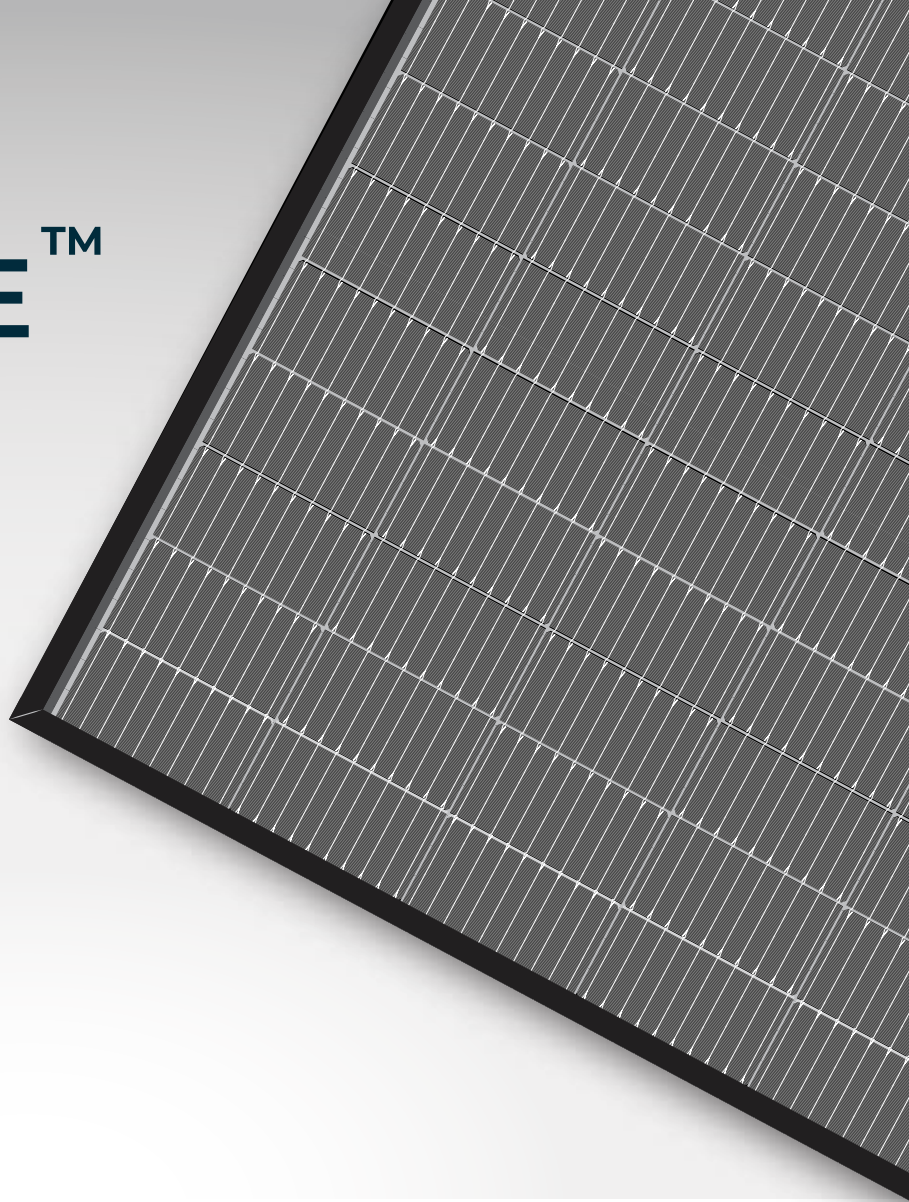


# BLUE PINE™

## MonoPERC PV Module HSA54M10MFPF

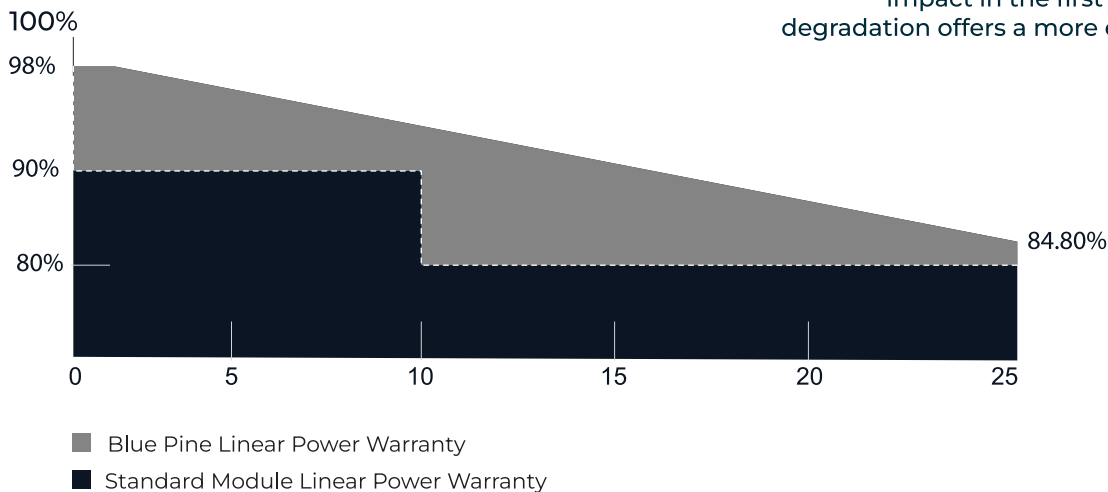
395-410 Watt MBB

-  MonoPERC Technology
-  10 MBB Technology
-  Long-Lasting Yield Guarantee
-  Lower Annual Power Loss
-  Better Low Light Performance
-  Lower Temperature Coefficient



### Superior Warranty

- 15-year product warranty
- 25-year linear power output warranty



### Low Electricity Generation Cost (LCOE)

Solar module with the highest Watt/m<sup>2</sup> value. Offers a more advantageous BOS cost in land applications.



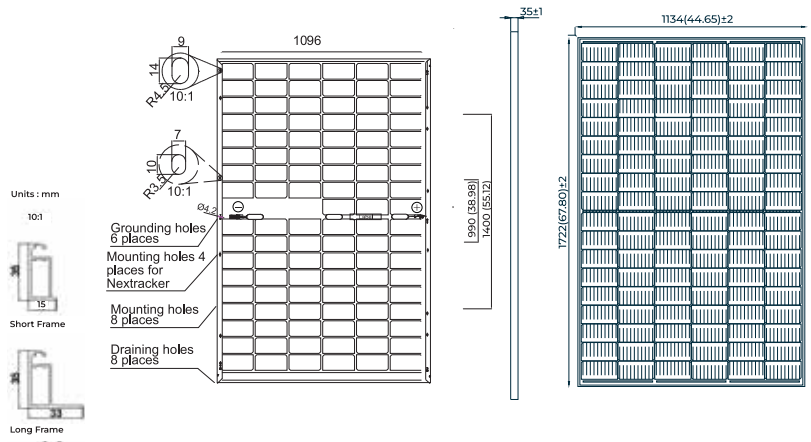
### Long Life-High Efficiency

The lower temperature coefficient  $\leq 2\%$  LID impact in the first year and low annual degradation offers a more efficient investment.



**Specifications** **Mechanical Diagrams**

<b>Cell</b>	10 BB MonoPERC
<b>Weight</b>	21 kg±0.5kg%
<b>Dimensions</b>	1722 mm×1134 mm×30 mm 67.80*44.65*1.18 inches
<b>Cable Cross Section Size</b>	4mm <sup>2</sup> (IEC) , 12 AWG(UL)
<b>No Of Cells</b>	108(6x18)
<b>Junction Box</b>	IP68, 3 Diodes
<b>Connector</b>	MC Compatible / MC4-EVO2 ( optional)
<b>Cable Length</b> (Including Connector)	Portrait: 300mm Landscape: 1400m,4mm <sup>2</sup> /12 AWG
<b>Front Glass</b>	3.2mm
<b>Packaging Configuration</b>	36 pcs/Pallet 936 US Container



**Electrical Parameters At STC**

Module Type	HSA54M10 MFPF-395	HSA54M10 MFPF-400	HSA54M10 MFPF-405	HSA54M10 MFPF-410
Rated Maximum Power (Pmax) [W]	395	400	405	410
Open Circuit Voltage (Voc) [V]	37.00	37.20	37.40	37.60
Maximum Power Voltage (Vmp) [V]	31.09	31.26	31.43	31.60
Short Circuit Current (Isc) [A]	13.43	13.54	13.66	13.77
Maximum Power Current (Imp) [A]	12.70	12.80	12.89	12.98
Module Efficiency [%]	20.02	20.05	20.7	21.1
Nominal Operating Cell Temperature	41±2°C			
Module Power Tolerance	0~±3%			
Temperature Coefficient of Isc (α <sub>Isc</sub> )	+0.045%/°C			
Temperature Coefficient of Voc (β <sub>Voc</sub> )	-0.27%/°C			
Temperature Coefficient of Pmax (γ <sub>Pmp</sub> )	-0.35%/°C			

STC (Standard Test Conditions) Irradiance 1000W/m<sup>2</sup>, Module temperature 25°C, AM 1.5

**Electrical Parameters At NMOT** **Operating Conditions**

Module Type	HSA54M10 MFPF-395	HSA54M10 MFPF-400	HSA54M10 MFPF-405	HSA54M10 MFPF-410	Operating Conditions	
Rated Max Power (Pmax) [W]	295	299	303	307	Maximum System Voltage	1500V DC
Open Circuit Voltage (Voc) [V]	34.97	35.15	35.34	35.53	Operating Temperature	-40°C~+85°C°
Max Power Voltage (Vmp) [V]	28.98	29.13	29.29	29.45	Maximum Series Fuse Rating	25 A
Short Circuit Current (Isc) [A]	10.89	10.99	11.08	11.17	Max. Static Load, Front*(Snow) Max. Static Load, Back*(Wind)	+5400Pa-2400 Pa +113/-50 psf
Max Power Current (Imp) [A]	10.19	10.26	10.33	10.41	NMOT	45±2°C°
					Fire Performance	UL Type 29

\*Irradiance 800W/m<sup>2</sup>, Ambient Temperature 20°C, Wind Speed 1m/s, AM1.5

**Characteristics**

