

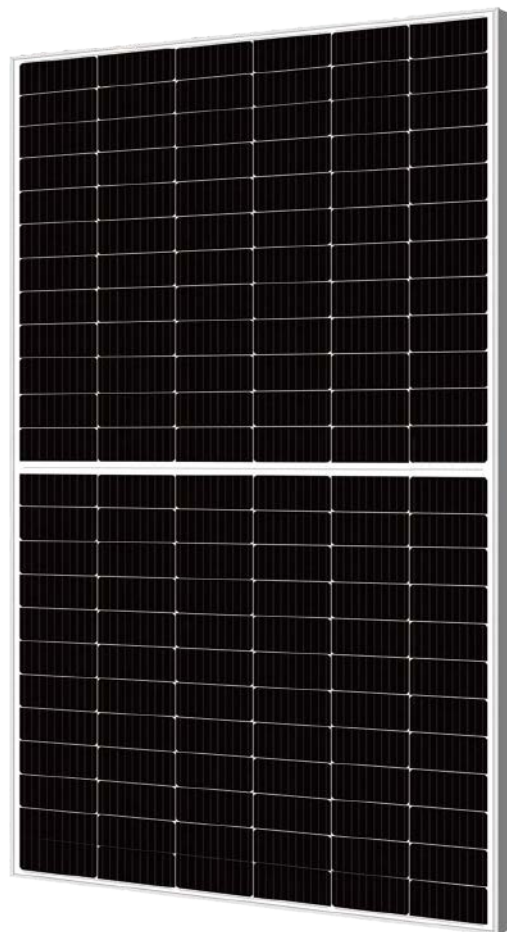
**SOLARBORN**  
BORN FOR THE SUN



# MONO 144 SERIES

SLB144M9-xxx  
(xxx=530-550)  
Monocrystalline  
PV Module

©COPYRIGHT 2022 SOLARBORN



#### **PID FREE**

POTENTIAL INDUCED DEGRADATION  
(PID) FREE GUARANTEED

#### **LONG-TERM STABLE POWER OUTPUT**

RELIABLE QUALITY LEADS TO A BETTER SUSTAIN-  
ABILITY EVEN IN HARSH ENVIRONMENT LIKE  
DESERT, FARM AND COASTLINE

#### **HIGH EFFICIENCY POSITIVE TOLERANCE**

STABLE PANELS WITH HIGH EFFICIENCY, PERC  
CELLS POSITIVE TOLERANCE UP TO 5W (0~+5)

#### **EXCELLENT RESISTANCE**

##### **AGAINST EXTREME WEATHER**

POWER OUTPUT IN WEAK LIGHT CONDITION,  
SUCH AS HAZE, CLOUDY, AND MORNING

#### **LOW CARBON EMISSION**

SOLAR POWER IS THE CLEAN  
AND RENEWABLE ENERGY  
LOW CARBON EMISSION  
GREAT FOR ENVIRONMENT

#### **COST EFFICIENCY**

COST EFFICIENCY CAN BE ESTIMATED  
FOR FUTURE INCOME

**12  
YEARS**

LIMITED  
PRODUCT  
WARRANTY

**25  
YEARS**

LIMITED  
POWER  
WARRANTY

# Mono Series

## SLB144M9-xxx(xxx=530-550)

www.solarborn.com  
Solarborn Technologies Co.,Ltd

### Electrical Characteristics(STC\*)

Power Output(Wp)	530	535	540	545	550
Max Power Tolerance(W)	0~+5	0~+5	0~+5	0~+5	0~+5
Module Efficiency(%)	20.50	20.70	20.90	21.10	21.30
Voltage Mpp-Vmpp(V)	41.28	41.51	41.70	41.92	42.11
Current Mpp-Impp(A)	12.84	12.89	12.95	13.00	13.06
Voltage Open Circuit-Voc(V)	49.61	49.87	49.95	50.04	50.28
Short Circuit Current-Isc(A)	13.66	13.72	13.78	13.84	13.90

\*STC: Irradiance 1000W/m<sup>2</sup>, Environment Temperature 25°C, Air Mass AM1.5

### Electrical Characteristics(NMOT\*)

Power Output(Wp)	407.16	411.01	414.85	418.69	422.53
Voltage Mpp-Vmpp(V)	37.62	37.83	38.01	38.21	38.39
Current Mpp-Impp(A)	10.82	10.86	10.91	10.96	11.01
Voltage Open Circuit-Voc(V)	45.80	46.04	46.12	46.20	46.42
Short Circuit Current-Isc(A)	11.61	11.66	11.72	11.77	11.82

\*NMOT: Irradiance 800W/m<sup>2</sup>, Environment Temperature 20°C, Air Mass AM1.5

### Mechanical Data

Dimension Of Module	2279*1134*35mm
Weight(kg)	27
Glass	High transmission glass 3.2mm
Cables	4mm <sup>2</sup> /300mm or Customized Length
Junction Box	IP68, 3 Bypass-Diode
Connector	MC4 compatible
Max System Voltage(VDC)	1500V
Max Series Fuse Rating	25A
Maximum Load Capacity	Snow 5400Pa/Wind 2400Pa
Operating Temperature	-40~+85
Safety Class	II

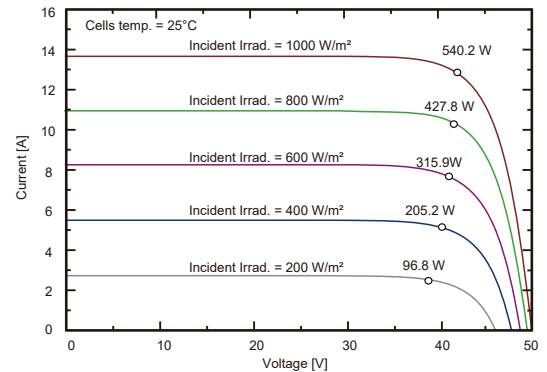
### Temperature Ratings

Temperature Coefficients of Isc(%/C)	0.046
Temperature Coefficients of Voc(%/C)	-0.266
Temperature Coefficients of Pmpp(%/C)	-0.354
NMOT	45±2 C

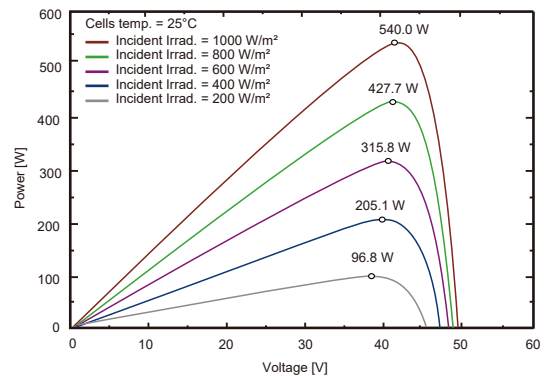
### Packaging Configuration

Package	31pcs/pallet	31pcs/pallet
Container	20' FT	40' HQ
Pieces Per Container	155	620

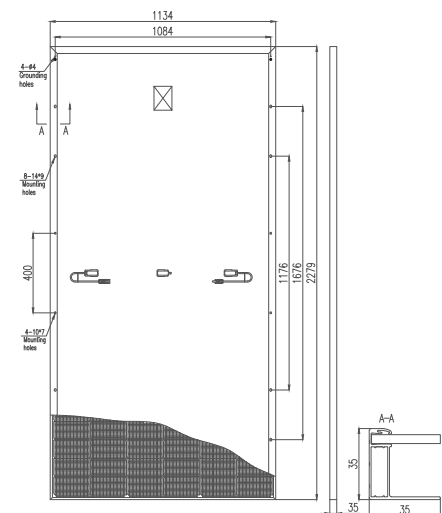
### I-V Curves(540W)



### P-V Curves(540W)



### Module Back View



\*400mm mounting holes are only suitable for 6005-T6 aluminum frame  
Specifications included in this datasheet are subject to change without notice.  
Version No.: SLB\_2022 Globl

# BORN FOR THE SUN