

# SDHYPER

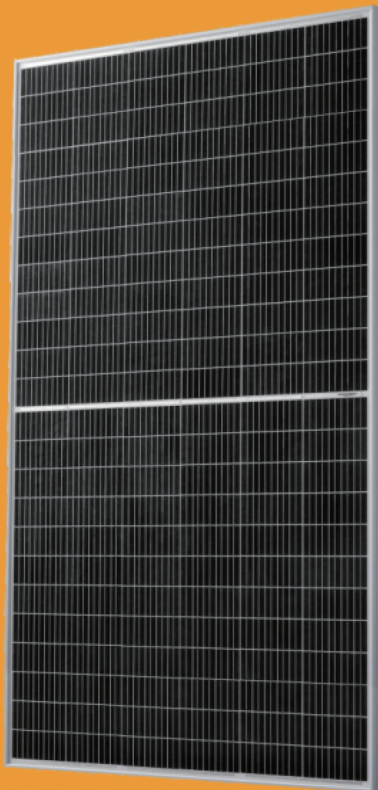
"Make Difference, Make Better."

## MONO 515-550w

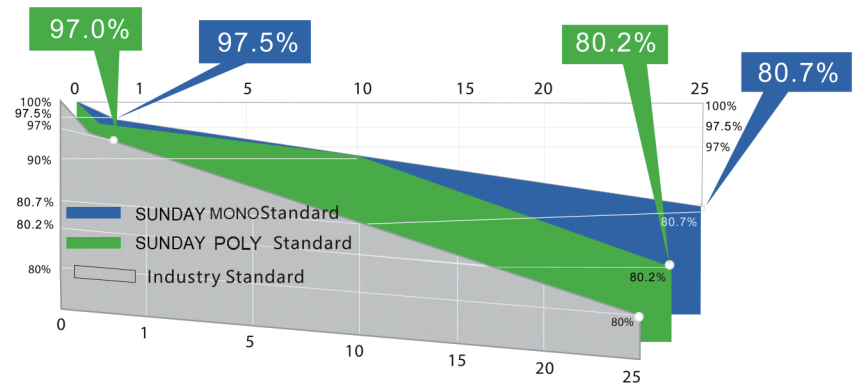
Sunday Energy Mono Modules

Assembled with the advanced 9busbar half-cell technology offer advantages of higher power output, reduced series resistance loss and lower risk of hotspot. In order to meet the customers' requirements of best quality and efficiency.

### 182 cells



### LINEAR PERFORMANCE WARRANTY



182

182 cell design

Smaller electric current, less CTM loss  
Lower risk of hot spot



ISO9001:2015&ISO14001  
management systems

IEC

IEC61215 & IEC61730  
standard quality



Wind load up to 3800Pa  
Snow load up to 5400Pa

+6W

0-6W positive power sorting



Stable performance under  
weak light conditions

10-year  
25-year

25-year power warranty  
10-year product warranty

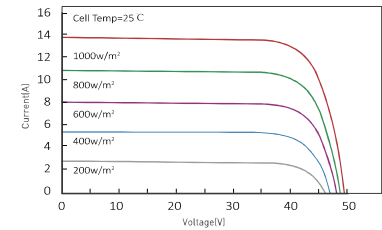
# MONO 515W-550W 144 HALF

## ELECTRICAL PARAMETERS

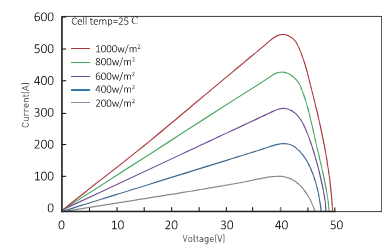
Model Type	SDM-515	SDM-520	SDM-525	SDM-530	SDM-535	SDM-540	SDM-545	SDM-550
Nominal Maximum Power (Pmax)	515W	520W	525W	530W	535W	540W	545W	550W
Optimum Operating Voltage (Vmp)	41.13V	41.30V	41.47V	41.63V	41.80V	41.97V	42.14V	42.31V
Optimum Operating Current (Imp)	12.52A	12.59A	12.66A	12.73A	12.80A	12.87A	12.94A	13.01A
Open Circuit Voltage (Voc)	49.29V	49.44V	49.59V	49.74V	49.89V	50.04V	50.19V	50.34V
Short Circuit Current (Isc)	13.41A	13.48A	13.55A	13.62A	13.69A	13.76A	13.83A	13.90A
Module Efficiency	19.93%	20.12%	20.31%	20.51%	20.70%	20.89%	21.17%	21.37%
Power Tolerance	0 to +6W							
Maximum System Voltage	DC 1500V							
Operating Temperature	-40 C ~ +85 C							
Maximum Series Fuse Rating	30A							
Number of Bypass Diode	4							

## ELECTRICAL CHARACTERISTICS

I-V Curve at Different Temperature (530W)



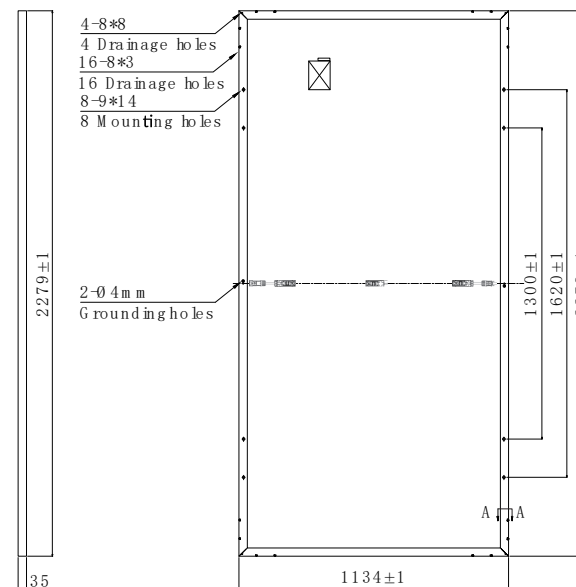
I-V/P-V Curve at Different Irradiation (530W)



## MECHANICAL DATA

Cell Type	182mm x 91mm(6*24)
Cell Arrangement	144 cells in series
Dimensions	2279 x 1134 x 35 mm
weight	28kg
Front Cover	3.2mm tempered glass
Frame Material	Anodized aluminium alloy
J-Box	IP68, 3 diodes
Cable	4mm² (IEC) / 12AWG (UL), 900mm
Connectors	MC4 or MC4 compatible

## PHYSICAL CHARACTERISTICS Unit: mm (inch)



## TEMPERATURE CHARACTERISTICS

Temperature Coefficient (Pmax)	-0.370% / °C
Temperature Coefficient (Voc)	-0.290% / °C
Temperature Coefficient (Isc)	0.05% / °C
Norminal operatigCell Temperatue	45.3 ± 2 °C

Note: Due to continuous technical innovation, R&D and creation, technical data above mentioned may be of modification timely, Sunday Energy has the own right to make such modification at anytime without future notice.

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