

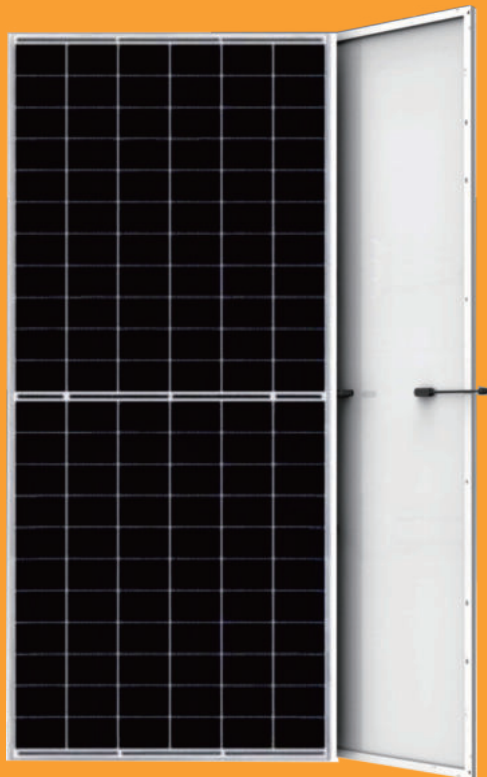
# SDHYPER

"Make Difference, Make Better."

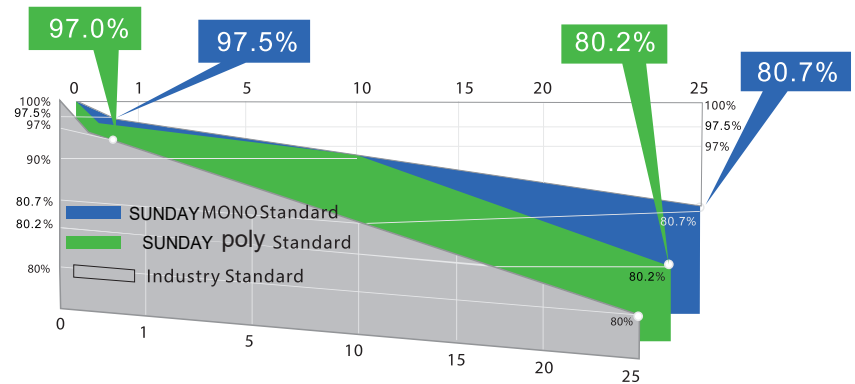
## MONO 690-720W

Sunday Energy 12BB Mono Modules

Assembled with the advanced 12 busbar-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.



### LINEAR PERFORMANCE WARRANTY



- 
**12BB** 12BB HJT 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 weaklight conditions**
- 
**10-year 25-year** 25-year power warranty  
10-year product warranty

# MONO 690W-720W M12 HJT CELLS

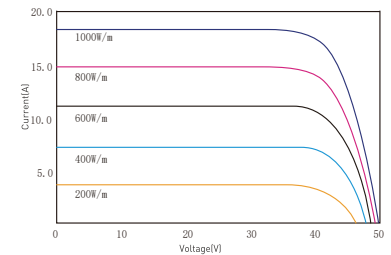


## ELECTRICAL PARAMETERS

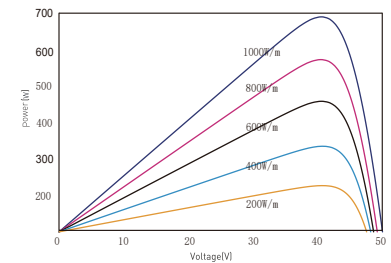
Model Type	SD-M12/132H-690 SD-M12/132H-695 SD-M12/132H-700 SD-M12/132H-705 SD-M12/132H-710 SD-M12/132H-715 SD-M12/132H-720						
Nominal Maximum Power (Pmax)	690W	695W	700W	705W	710W	715W	720W
Optimum Operating Voltage (Vmp)	41.80V	41.95V	42.10V	42.25V	42.40V	42.55V	42.70V
Optimum Operating Current (Imp)	16.51A	16.57A	16.63A	16.69A	16.75A	16.80A	16.86A
Open Circuit Voltage (Voc)	49.82V	49.98V	50.13V	50.29V	50.44V	50.60V	50.65V
Short Circuit Current (Isc)	17.31A	17.37A	17.43A	17.49A	17.55A	17.61A	17.66A
Module Efficiency	22.21%	22.37%	22.53%	22.68%	22.85%	23.00%	23.17%
Power Tolerance	0 to + 6W						
Maximum System Voltage	DC 1500V						
Operating Temperature	-40C ~+85 C						
Maximum Series Fuse Rating	30A						
Number of Bypass Diode	3						

## ELECTRICAL CHARACTERISTICS

I-V Curve at Different Temperature (700W)



P-V Curve at Different Irradiation (700W)



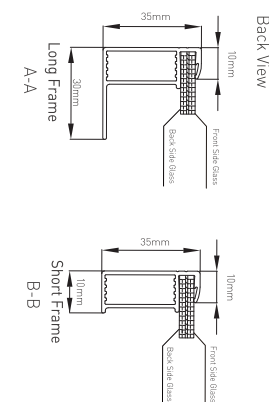
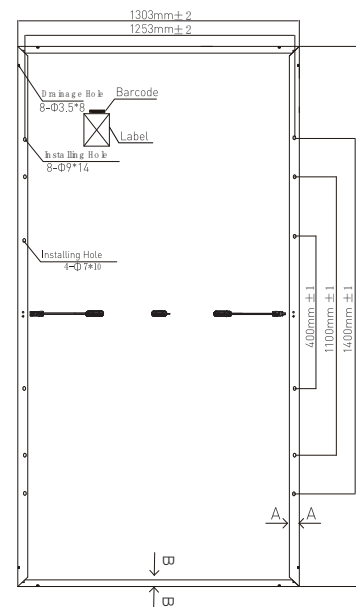
## MECHANICAL DATA

Cell Type	210mm x 105mm
Cell Arrangement	132 cells in series
Dimensions	2385 x 1303 x 35 mm
weight	35.7kg
Front side glass	3.2mm tempered glass
Backsheet	White
Frame Material	Anodized aluminium alloy
J-Box	IP67/IP68, 3 diodes
Cable	4mm <sup>2</sup> (IEC) / 12AWG (UL), 300mm
Connectors	MC4 or MC4 compatible

## TEMPERATURE CHARACTERISTICS

Temperature Coefficient (Pmax)	-0.260% / °C
Temperature Coefficient (Voc)	-0.240% / °C
Temperature Coefficient (Isc)	0.04% / °C
Norminal operatigCell Temperatue	44 ± 2 °C

## PHYSICAL CHARACTERISTICS Unit: mm (inch)



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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