

# DHN-60R18/FS(BW)

## 500~520W

Full-Screen Single Glass PV Module

### Comprehensive Products & System Certificates

IIEC 61215 / IEC 61730 / CE / INMETRO  
ISO 45001  
2018/International standards for occupational health & safety  
ISO 14001  
2015/Standards for environmental management system  
ISO 9001  
2015/Quality management system

25 Material & technology warranty

30 Linear power output warranty



Global Patented Full Screen Technology,  
no dust or snow accumulation, increase power generation by 6-15%



Rectangular cells (182mm x 191.6mm) with higher power



Maximize container utilization, increase loading capacity by 5.4%,  
and lower transportation costs



High power rectangular solar cells, saving bracket and cable costs,  
and lower BOS costs

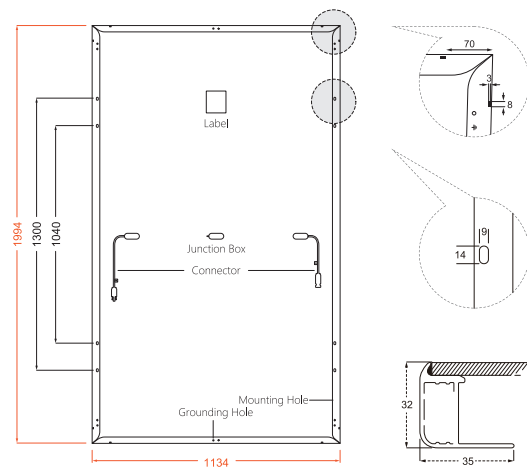


TOPCon cells, lower attenuation,  
better temperature coefficient & dim light performance

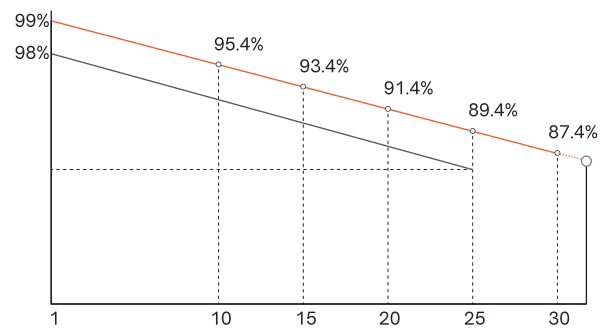


# DHN-60R18/FS(BW) 500~520W

## Design



## 30-Year Linear Power Output Warranty



— DAH Solar linear power output guarantee  
— Standard linear power output guarantee

## Mechanical Specification

|                   |                           |
|-------------------|---------------------------|
| No. of Cells      | 120 (6×20)                |
| Weight            | 21.7kg                    |
| Cells Type        | N-type 182×95.8mm         |
| Dimension (L×W×T) | 1994×1134×32mm            |
| Packing           | 34pcs/Pallet, 748pcs/40HQ |

|                            |                                                                    |
|----------------------------|--------------------------------------------------------------------|
| Cable(Including connector) | 4.0mm <sup>2</sup> , 300/200mm in length, length can be customized |
| Glass                      | 3.2mm High Transmission, Antireflection Coating                    |
| Junction Box               | IP68, 3 Bypass Diodes                                              |
| Connector                  | MC4 Compatible                                                     |

## STC-Electrical Characteristics

| Module Type                                | DHN-60R18/FS(BW) |       |       |       |       |
|--------------------------------------------|------------------|-------|-------|-------|-------|
| Maximum Power (P <sub>max</sub> /W)        | 500              | 505   | 510   | 515   | 520   |
| Open-circuit Voltage (V <sub>oc</sub> /V)  | 43.7             | 43.9  | 44.1  | 44.3  | 44.5  |
| Maximum Power Voltage (V <sub>mp</sub> /V) | 37.1             | 37.3  | 37.5  | 37.7  | 37.9  |
| Short-circuit Current (I <sub>sc</sub> /A) | 14.48            | 14.54 | 14.60 | 14.66 | 14.72 |
| Maximum Power Current (I <sub>mp</sub> /A) | 13.48            | 13.54 | 13.60 | 13.66 | 13.72 |
| Module Efficiency (%)                      | 22.11            | 22.33 | 22.55 | 22.78 | 23.00 |

STC-Standard Test Environment: Irradiance 1000W/m<sup>2</sup>, Cell temperature 25°C, Spectrum AM1.5

## NOCT-Electrical Characteristics

|                                            |       |       |       |       |       |
|--------------------------------------------|-------|-------|-------|-------|-------|
| Maximum Power (P <sub>max</sub> /W)        | 376   | 380   | 384   | 387   | 391   |
| Open-circuit Voltage (V <sub>oc</sub> /V)  | 41.5  | 41.7  | 41.9  | 42.1  | 42.3  |
| Maximum Power Voltage (V <sub>mp</sub> /V) | 35.2  | 35.4  | 35.6  | 35.8  | 36.0  |
| Short-circuit Current (I <sub>sc</sub> /A) | 11.69 | 11.74 | 11.79 | 11.84 | 11.88 |
| Maximum Power Current (I <sub>mp</sub> /A) | 10.67 | 10.72 | 10.77 | 10.81 | 10.86 |

NOCT-Standard Test Environment: Irradiance 800W/m<sup>2</sup>, Ambient temperature 20°C, Spectrum AM1.5, Wind speed 1m/s

## Operating Parameters

|                                    |             |
|------------------------------------|-------------|
| Maximum System Voltage             | 1500V DC    |
| Operating Temperature              | -40 ~ +85°C |
| Maximum Series Fuse Rating         | 25A         |
| Nominal Operating Cell Temperature | 45°C±2°C    |
| Application Level                  | Class A     |

## Temperature Coefficient

|                                                                 |               |
|-----------------------------------------------------------------|---------------|
| Temperature Coefficient of I <sub>sc</sub> (α <sub>Isc</sub> )  | 0.046%/°C     |
| Temperature Coefficient of V <sub>oc</sub> (β <sub>Voc</sub> )  | -0.25%/°C     |
| Temperature Coefficient of P <sub>max</sub> (γ <sub>Pmp</sub> ) | -0.29%/°C     |
| Snow load, frontside / Wind load, backside                      | 5400Pa/2400Pa |