



# SOLAR PLUS

SP-M10/27H

# CYGNUS

## PERC Monofacial

# 100W



**HIGH EFFICIENCY**



**EXCELLENT MECHANICAL RELIABILITY**



**PASS EXTREME TESTING**



**EASY TO SETUP**

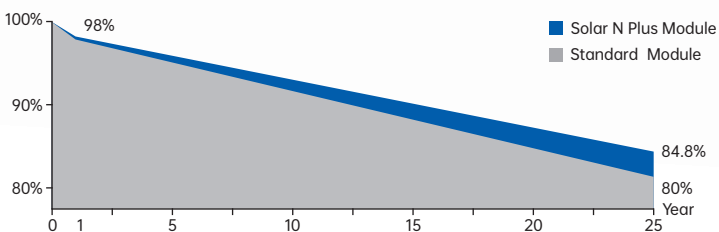
### WARRANTY



Guarantee on product material and workmanship



Linear power output warranty



### CERTIFICATION



- ISO 9001: 2015/quality management system
- ISO 14001: 2015/environment management system
- ISO 45001: 2018/occupation health safety management system

# 100W

# SP-M10/27H

## ELECTRICAL CHARACTERISTICS (STC)

|                             |   |       |
|-----------------------------|---|-------|
| Maximum Power (Pm)          | W | 100   |
| Power Tolerance             | W | 0~+5  |
| Maximum Power Voltage (Vm)  | V | 15.73 |
| Maximum Power Current (Im)  | A | 6.36  |
| Open Circuit Voltage (Voc)  | V | 18.76 |
| Short Circuit Current (Isc) | A | 6.79  |
| Module Efficiency (ηm)      | % | 19.16 |

STC:AM=1.5, irradiance=1000W/m<sup>2</sup>, module temperature=25°C

## MECHANICAL SPECIFICATIONS

|                            |   |
|----------------------------|---|
| External Dimension (L×W×H) | 897×582×35 mm                                 |
| Solar Cells                | 27 (3×9)/10BB Mono/182×91mm                   |
| Weight                     | 6.0kg   |
| Glass                      | 3.2mm AR-coating heat-strengthened glass      |
| Frame                      | Anodized aluminum alloy, silver color         |
| Junction Box               | IP68  |
| Output Cables              | 4mm <sup>2</sup> , 300mm or customized length |
| Connector                  | MC4 Compatible                                |

## APPLICATION CONDITIONS

|                            |                             |
|----------------------------|-----------------------------|
| Maximum System Voltage     | DC1500V (IEC)               |
| Maximum Series Fuse Rating | 15A                         |
| Operating Temperature      | -40°C ~ +85°C               |
| Mechanical Load            | 5400Pa/2400Pa               |
| Hail Test                  | 25mm diameter hail at 23m/s |
| Application Rating         | Class A                     |

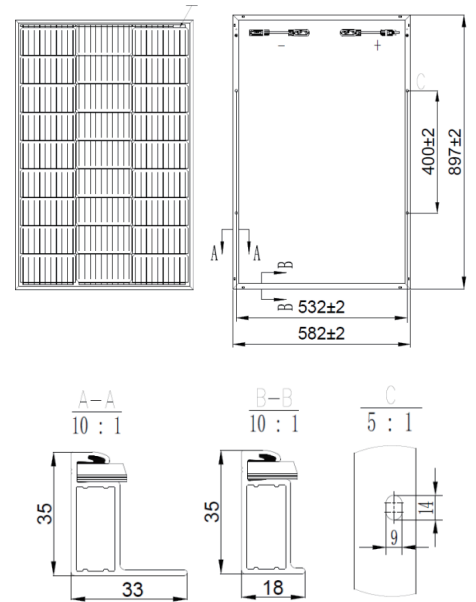
## TEMP CHARACTERISTICS

|                                      |           |
|--------------------------------------|-----------|
| Nominal Module Operating Temperature | 45±2°C    |
| Temperature Coefficient of Power     | -0.35%/°C |
| Temperature Coefficient of Voltage   | -0.28%/°C |
| Temperature Coefficient of Current   | 0.05%/°C  |

## PACKING CONFIGURATION

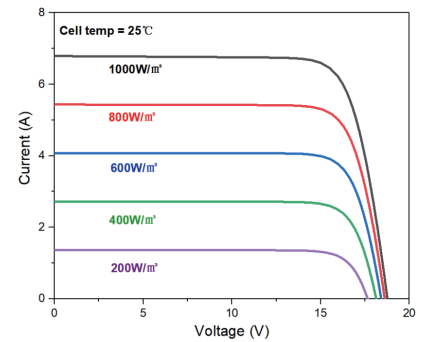
|                      |                |
|----------------------|----------------|
| Container            | 40'HC          |
| Module per box       | 31 Pieces      |
| Packaging Box Size   | 927×1140×710mm |
| Module per Container | 1488 Pieces    |

## TECHNICAL DRAWING

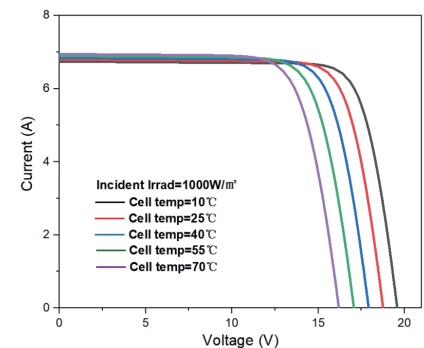


## I-V CURVE

I-V characteristics at different irradiance (SP-M10/27H100W)



I-V characteristics at different temperatures (SP-M10/27H100W)



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