



# SOLAR PLUS

SP-M10/156H

# CYGNUS

## PERC Monofacial

# 580-600W



**HIGH POWER**



**MUTI BUSBAR**



**HALF-CUT CELL**



**HIGH DENSITY ENCAPSULATION**

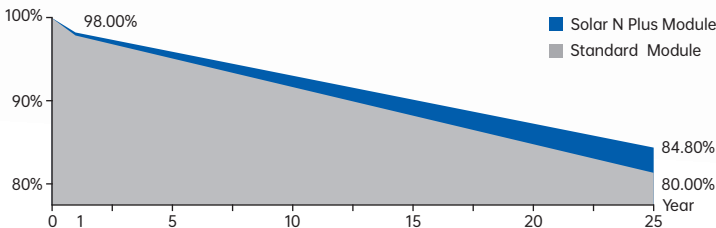
### WARRANTY



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

# 580-600W SP-M10/156H

## ELECTRICAL CHARACTERISTICS (STC)

Maximum Power (Pm)	W	580	585	590	595	600
Power Tolerance	W	0~+5				
Maximum Power Voltage (V <sub>m</sub> )	V	45.10	45.25	45.40	45.55	45.70
Maximum Power Current (I <sub>m</sub> )	A	12.86	12.93	13.00	13.06	13.13
Open Circuit Voltage (V <sub>oc</sub> )	V	53.50	53.65	53.80	53.95	54.10
Short Circuit Current (I <sub>sc</sub> )	A	13.75	13.81	13.87	13.93	13.99
Module Efficiency (η <sub>m</sub> )	%	20.70	20.90	21.10	21.30	21.50

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

## ELECTRICAL CHARACTERISTICS (NMOT)

Maximum Power (Pm)	W	436	440	444	448	452
Maximum Power Voltage (V <sub>m</sub> )	V	40.65	40.80	40.95	41.10	41.25
Maximum Power Current (I <sub>m</sub> )	A	10.73	10.78	10.84	10.90	10.96
Open Circuit Voltage (V <sub>oc</sub> )	V	49.15	49.30	49.45	49.60	49.75
Short Circuit Current (I <sub>sc</sub> )	A	11.35	11.41	11.47	11.53	11.59

NMOT: irradiance=800W/m<sup>2</sup>, environment temperature=20°C, wind speed=1m/s

## MECHANICAL SPECIFICATIONS

External Dimension (L×W×H)	2465×1134×35mm
Solar Cells	156 (6x26)/10BB Mono/182×91mm
Weight	30.6kg
Glass	3.2mm AR-coating heat-strengthened glass
Frame	Anodized aluminum alloy, silver color
Junction Box	IP68
Output Cables	4.0mm <sup>2</sup> , 300mm or customized length
Connector	MC4 Compatible

## APPLICATION CONDITIONS

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

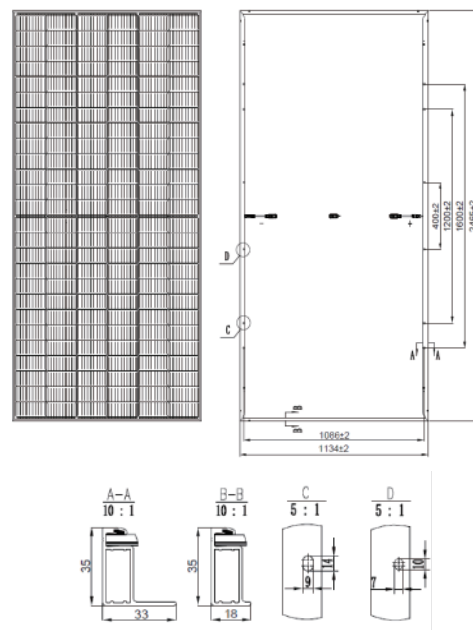
## TEMP CHARACTERISTICS

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	+0.050%/°C

## PACKING CONFIGURATION

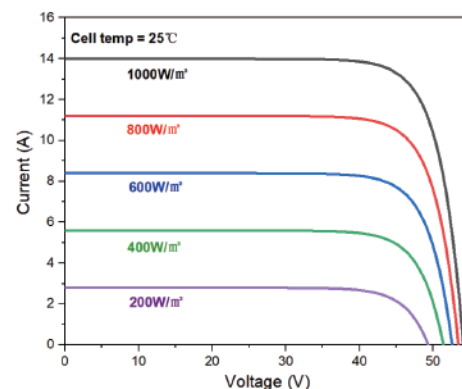
Container	40'HC
Module per box	31 Pieces
Packaging box Size	2495×1140×1290mm
Module per container	558 Pieces

## TECHNICAL DRAWING

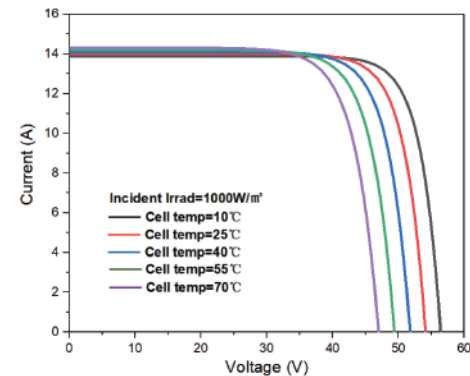


## I-V CURVE

I-V characteristics at different irradiance (SP-M10/156H 600W)



I-V characteristics at different temperatures (SP-M10/156H 600W)



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