

**SP-M10-108H**

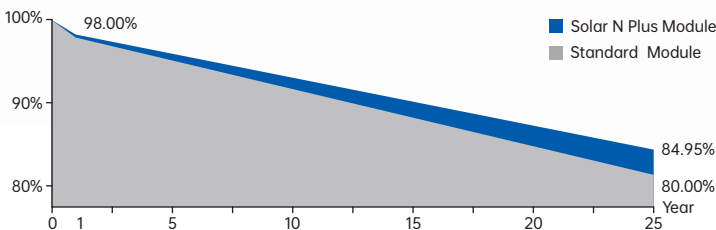
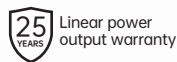
# CYGNUS

All-black monofacial

# 395-415W



## WARRANTY



## CERTIFICATION



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

# 395-415W

## SP-M10-108H

### ELECTRICAL CHARACTERISTICS (STC)

Maximum Power (Pm)	W	395	400	405	410	415
Power Tolerance	W	0~+5				
Maximum Power Voltage (V <sub>m</sub> )	V	30.60	30.80	31.00	31.20	31.40
Maximum Power Current (I <sub>m</sub> )	A	12.91	12.99	13.07	13.15	13.23
Open Circuit Voltage (V <sub>oc</sub> )	V	36.60	36.80	37.00	37.20	37.40
Short Circuit Current (I <sub>sc</sub> )	A	13.77	13.85	13.93	14.01	14.09
Module Efficiency (η <sub>m</sub> )	%	20.20	20.50	20.70	21.00	21.30

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

### ELECTRICAL CHARACTERISTICS (NMOT)

Maximum Power (Pm)	W	294	298	301	305	309
Maximum Power Voltage (V <sub>m</sub> )	V	28.54	28.74	28.94	29.14	29.34
Maximum Power Current (I <sub>m</sub> )	A	10.28	10.36	10.44	10.52	10.60
Open Circuit Voltage (V <sub>oc</sub> )	V	34.53	34.73	34.93	35.13	35.33
Short Circuit Current (I <sub>sc</sub> )	A	11.27	11.35	11.43	11.51	11.59

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

### MECHANICAL SPECIFICATIONS

External Dimension (L×W×H)	1722×1134×30mm
Solar Cells	108 (6x18)/10BB Mono/182×91mm
Weight	21.0kg
Glass	3.2mm AR-coating heat-strengthened glass
Frame	Anodized aluminum alloy, black 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

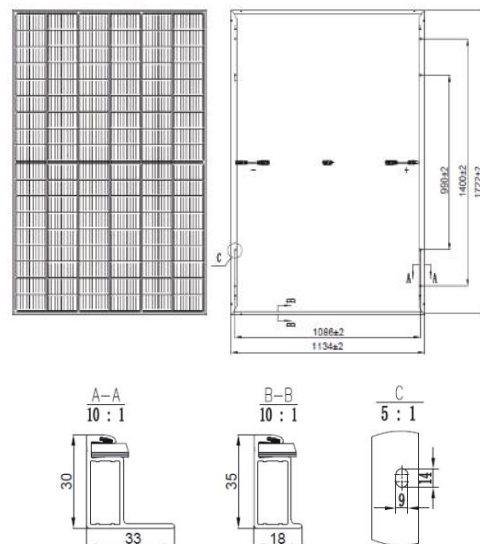
### TEMP CHARACTERISTICS

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

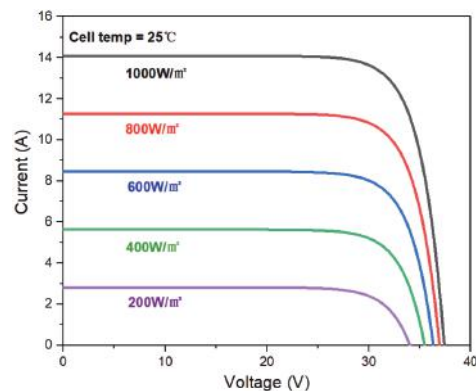
Container	40'HC
Module per box	36 Pieces
Packaging Box Size	1750×1140×1290mm
Module per Container	936 Pieces

### TECHNICAL DRAWING

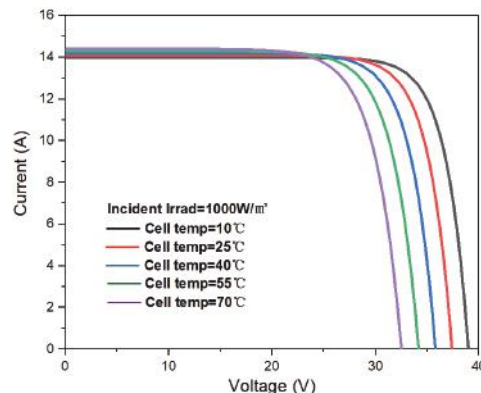


### I-V CURVE

I-V characteristics at different irradiance (SP-M10/108H 415W)



I-V characteristics at different temperatures (SP-M10/108H 415W)



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