



SOLAR PLUS

SP-M10/144H

CYGNUS

PERC Monofacial

540-560W



**HIGH
POWER**



**MUTI
BUSBAR**



**HALF-CUT
CELL**



**HIGH DENSITY
ENCAPSULATION**

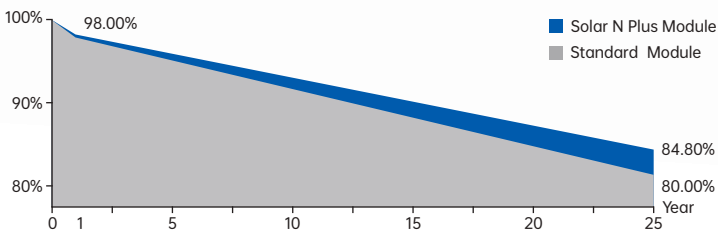
WARRANTY



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

540-560W SP-M10/144H

ELECTRICAL CHARACTERISTICS (STC)

Maximum Power (Pm)	W	540	545	550	555	560
Power Tolerance	W	0~+5				
Maximum Power Voltage (V _m)	V	42.06	42.35	42.64	42.93	43.22
Maximum Power Current (I _m)	A	12.84	12.87	12.90	12.93	12.96
Open Circuit Voltage (V _{oc})	V	49.75	49.98	50.22	50.46	50.70
Short Circuit Current (I _{sc})	A	13.63	13.66	13.70	13.73	13.76
Module Efficiency (η _m)	%	20.90	21.10	21.30	21.50	21.70

STC:AM=1.5, irradiance=1000W/m², module temperature=25°C

ELECTRICAL CHARACTERISTICS (NMOT)

Maximum Power (Pm)	W	405	409	413	417	421
Maximum Power Voltage (V _m)	V	38.67	38.82	38.97	39.12	39.27
Maximum Power Current (I _m)	A	10.43	10.46	10.49	10.52	10.55
Open Circuit Voltage (V _{oc})	V	46.65	46.88	47.12	47.36	47.60
Short Circuit Current (I _{sc})	A	10.73	10.76	10.80	10.84	10.88

NMOT: irradiance=800W/m², environment temperature=20°C, wind speed=1m/s

MECHANICAL SPECIFICATIONS

External Dimension (L×W×H)	2278×1134×35mm
Solar Cells	144 (6x24)/10BB Mono/182×91mm
Weight	28.0kg
Glass	3.2mm AR-coating heat-strengthened glass
Frame	Anodized aluminum alloy, silver color
Junction Box	IP68
Output Cables	4.0mm ² , 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

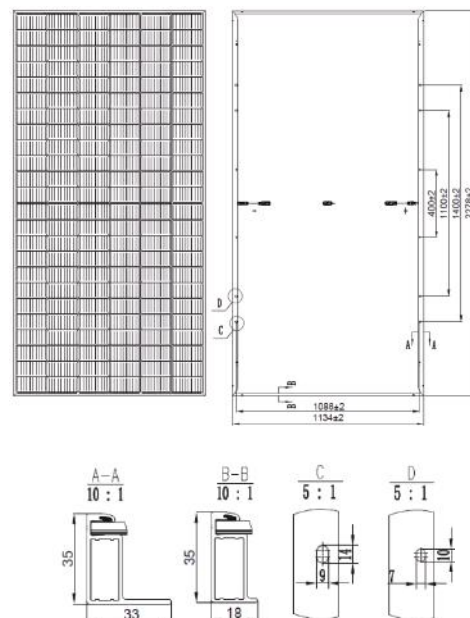
TEMP CHARACTERISTICS

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

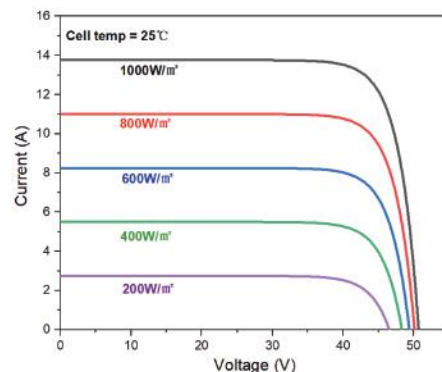
Container	40'HC
Module per box	31 Pieces
Packaging box Size	2335×1140×1290mm
Module per container	620 Pieces

TECHNICAL DRAWING

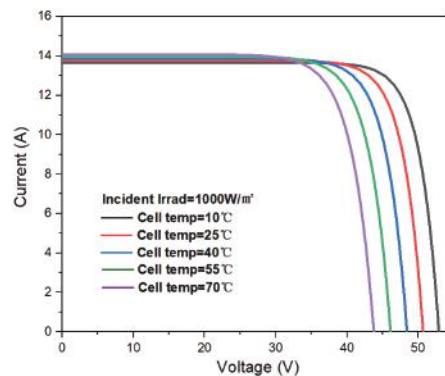


I-V CURVE

I-V characteristics at different irradiance (SP-M10/144H560W)



I-V characteristics at different temperatures (SP-M10/144H560W)



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