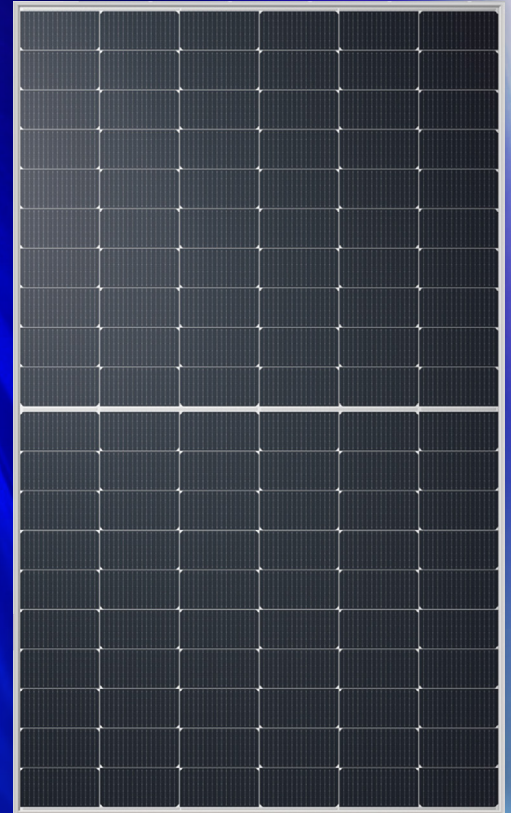









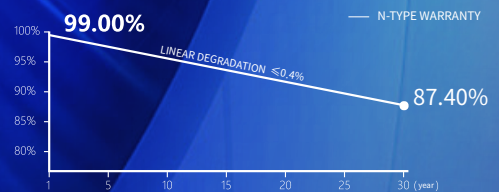


630~650W

HY-NT12/60H



-  Module Efficiency up to 23.0%
-  Zero LID
-  SMBB + Half-cell tech, reduce internal current loss, improve module efficiency, minimize micro-crack impacts, and improve module reliability
-  Non-destructive Slicing Tech, reduce micro-crack risk
-  Lower temperature coefficient (-0.29%/°C), lower operating temperature, increase the power generation
-  Excellent low irradiance performance, higher power output
-  Resistant to harsh environments
-  Anti PID
-  More energy yield, lower BOS and LCOE



-  15-YEAR PRODUCT WORKMANSHIP WARRANTY
-  30-YEAR LINEAR POWER WARRANTY

Comprehensive Products and System Certificates

IEC 61215, IEC 61730
 ISO 9001:2015 Quality management systems
 ISO 14001:2015 Environmental management systems
 ISO 45001:2018 Occupational health and safety management systems



Electrical performance parameters

*STC: Irradiance 1000W/m², Cell Temperature 25° C, AM=1.5

Rated output (Pmpp / Wp)	630	635	640	645	650
Rated voltage (Vmpp / V)	36.10	36.30	36.50	36.70	36.90
Rated current (Impp / A)	17.46	17.50	17.54	17.58	17.62
Open circuit voltage (Voc / V)	43.75	43.95	44.15	44.35	44.55
Short-circuit current (Isc / A)	18.22	18.26	18.30	18.34	18.38
Module efficiency	22.3%	22.4%	22.6%	22.8%	23.0%
Power tolerance	0~+5W				

NMOT: Irradiance 800W/m², Ambient Temperature 20° C, AM=1.5, Wind Speed 1m/s

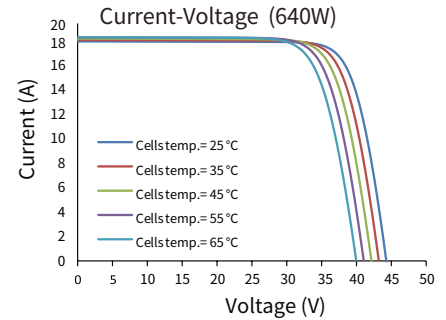
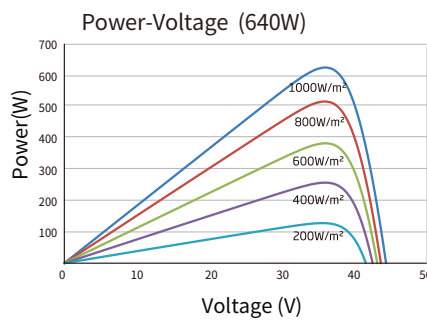
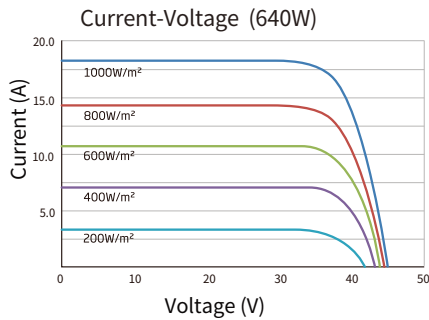
Rated output (Pmpp / Wp)	477.9	481.7	485.6	489.4	493.3
Rated voltage (Vmpp / V)	33.99	34.19	34.39	34.59	34.79
Rated current (Impp / A)	14.06	14.09	14.12	14.15	14.18
Open circuit voltage (Voc / V)	41.61	41.81	42.01	42.21	42.41
Short-circuit current (Isc / A)	14.71	14.75	14.79	14.83	14.87

Temperature Ratings (STC)

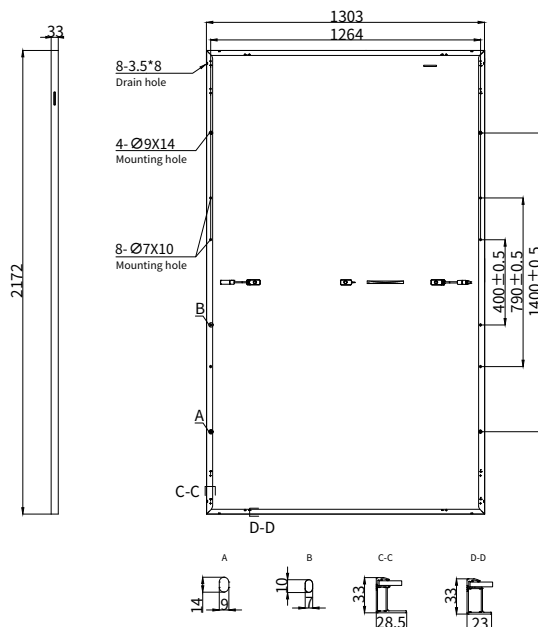
Temperature coefficient (Pmpp)	-0.29%/°C
Temperature coefficient (Isc)	+0.043%/°C
Temperature coefficient (Voc)	-0.24%/°C
Nominal module operating temperature (NMOT)	42±2°C

Operating Parameters

Max. system voltage (IEC)	1500V _{DC}
Number of diodes	3
Junction box IP rating	IP 68
Max. series fuse rating	30A
Operational temperature	-40~+85°C



Mechanical parameters



Outer dimensions (L x W x H)	2172x 1303 x 33 mm
Cell	N type mono-crystalline
Number of cells	120 (6*20)
Frame type	Aluminum, silver anodized
Glass thickness	3.2 mm
Cable length (including connector)	Portrait: (-)300 mm, (+)300 mm; Customized length
Cable cross-sectional area (IEC)	4 mm ² / 12 AWG
① Maximum test mechanical load	5400Pa (front) /2400Pa(rear)
Connector type (IEC)	PV-HYC11xyz(standard)/MC4 EVO2(optional)
Module weight	30.6 kg
Packaging unit	33 pcs / box
Weight of packing unit	1070 kg / box
Modules per 40' HQ container	594 pcs

① Please refer to the installation manual or contact us to confirm.
The maximum test mechanical load = 1.5× maximum design mechanical load.

*The data above is for reference only and the actual data is in accordance with the practical testing. Power Measurement Tolerance ±3% under STC standard.