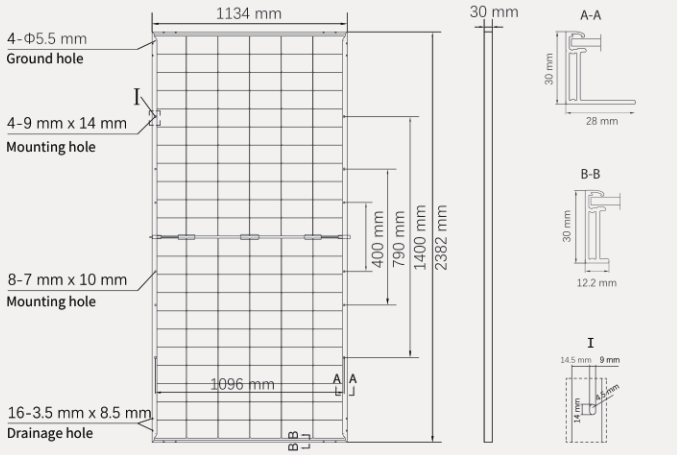
605~630W	0~+3%	23.3%	≤ 1.0%	≤ 0.4%
POWER RANGE	POWER SORTING	MAX MODULE EFFICIENCY	FIRST YEAR POWER DEGRADATION	YEAR 2-30 POWER DEGRADATION

Mechanical Specifications

Outer dimensions (L x W x H)	2382 x 1134 x 30 mm
Cell type	n-type mono-crystalline
No. of cells	132 (6*22)
Frame technology	Aluminum, silver anodized
Front / Back glass	2.0+2.0 mm
Cable length (Including connector)	Portrait: (+)350 mm,(-)250 mm; Customized length
Cable diameter (IEC/UL)	4 mm^2 / 12 AWG
① Maximum mechanical test load	5400 Pa (front) / 2400 Pa (back)
Connector type (IEC/UL)	HCB40 (Standard) / MC4-EVO2A (Optional)
Module weight	32.8 kg
Packing unit	36 pcs / box
Weight of packing unit (for 40'HQ container)	1231 kg
Modules per 40' HQ container	720 pcs (Subject to sales contract)



① Refer to Astronergy crystalline installation manual or contact technical department.
Maximum Mechanical Test Load=1.5×Maximum Mechanical Design Load.

Electrical Specifications

STC: Irradiance 1000W/m^2, Cell Temperature 25° C, AM=1.5

Rated output (Pmpp / Wp)	605	610	615	620	625	630
Rated voltage (Vmpp / V)	41.18	41.31	41.43	41.56	41.69	41.82
Rated current (Impp / A)	14.69	14.77	14.84	14.92	14.99	15.07
Open circuit voltage (Voc / V)	48.59	48.74	48.89	49.04	49.19	49.34
Short circuit current (Isc / A)	15.86	15.94	16.02	16.11	16.19	16.27
Module efficiency	22.4%	22.6%	22.8%	23.0%	23.1%	23.3%

NMOT: Irradiance 800W/m^2, Ambient Temperature 20° C, AM=1.5, Wind Speed 1m/s

Rated output (Pmpp / Wp)	455.0	458.7	462.5	466.2	470.0	473.8
Rated voltage (Vmpp / V)	38.76	38.88	39.00	39.12	39.24	39.36
Rated current (Impp / A)	11.74	11.80	11.86	11.92	11.98	12.04
Open circuit voltage (Voc / V)	46.15	46.30	46.44	46.58	46.72	46.86
Short circuit current (Isc / A)	12.80	12.87	12.94	13.00	13.07	13.13

Electrical Specifications (Integrated power)

Pmpp gain	Pmpp / Wp	Vmpp / V	Impp / A	Voc / V	Isc / A
5%	646	41.43	15.59	48.89	16.83
10%	677	41.43	16.33	48.89	17.63
15%	707	41.43	17.07	48.89	18.43
20%	738	41.43	17.81	48.89	19.23
25%	769	41.43	18.55	48.89	20.03

Electrical characteristics with different rear power gain (reference to 615W)

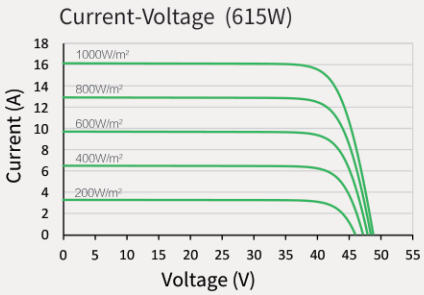
Temperature Ratings (STC)

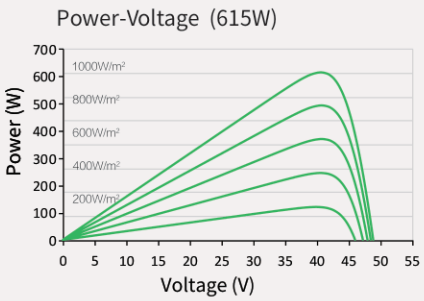
Temperature coefficient (Pmpp)	-0.29%/°C
Temperature coefficient (Isc)	+0.043%/°C
Temperature coefficient (Voc)	-0.25%/°C
Nominal module operating temperature (NMOT)	41±2°C

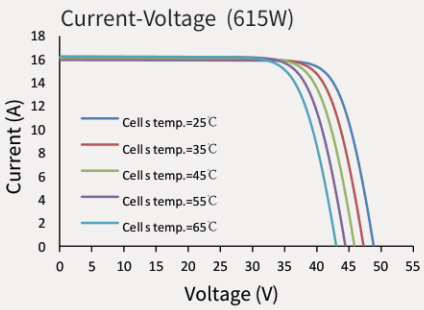
Operating Parameters

No. of diodes	3
Junction box IP rating	IP 68
Max. series fuse rating	35 A
Max. system voltage (IEC/UL)	1500V_{DC}

Curve







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