


ASTRONERGY


Agri-PV
35% translucency

ASTRO N5

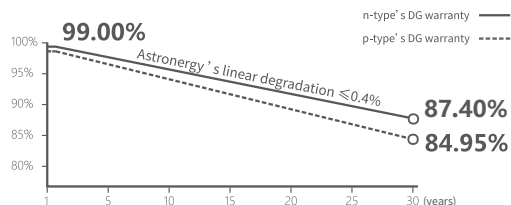
CHSM48N(DGT)/F-BH
Bifacial Series(182)

370~385W

Warranty

12 12-year Product Warranty

30 30-year Linear Power Warranty



Key Features

- Suitable for distributed projects
- High Power
- High Reliability
- Bifacial gain



ISO 9001:2015:ISO Quality Management System
ISO 14001:2015:ISO Environment Management System
ISO 45001:Occupational Health and Safety
The first solar company which passed the Nord IEC/TS 62941 certification audit



Tier 1
BloombergNEF



370~385W

POWER RANGE

0~+5W

POWER SORTING

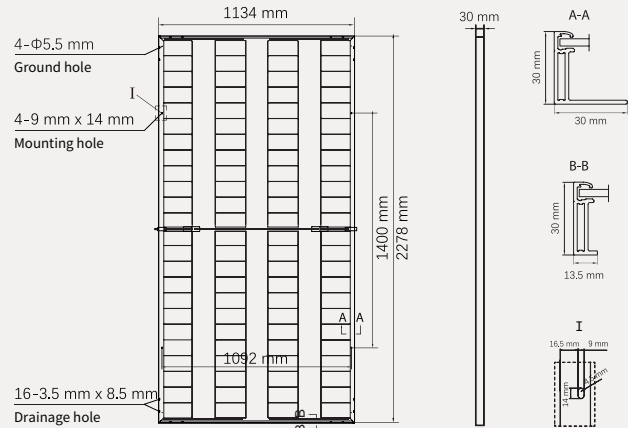
14.9%

MAX MODULE
EFFICIENCY $\leq 1.0\%$ FIRST YEAR
POWER DEGRADATION $\leq 0.4\%$ YEAR 2-30
POWER DEGRADATION

Mechanical Specifications

Outer dimensions (L x W x H)	2278 x 1134 x 30 mm
Cell type	n-type Mono-crystalline
No. of cells	96 (4*24)
Frame technology	Aluminum, black 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 / MC4-EVO2A (optional)
Module weight	31.6 kg
Packing unit	36 pcs / box (Subject to sales contract)
Weight of packing unit (for 40'HQ container)	1197 kg
Modules per 40' HQ container	720 pcs

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/m², Cell Temperature 25° C, AM=1.5

Rated output (P _{mpp} / Wp)	370	375	380	385
Rated voltage (V _{mpp} / V)	28.77	29.01	29.25	29.48
Rated current (I _{mpp} / A)	12.86	12.93	12.99	13.06
Open circuit voltage (V _{oc} / V)	34.41	34.70	34.98	35.26
Short circuit current (I _{sc} / A)	13.44	13.47	13.51	13.54
Module efficiency	14.3%	14.5%	14.7%	14.9%

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

Rated output (P _{mpp} / Wp)	278.2	282.0	285.8	289.5
Rated voltage (V _{mpp} / V)	27.09	27.30	27.53	27.76
Rated current (I _{mpp} / A)	10.27	10.33	10.38	10.43
Open circuit voltage (V _{oc} / V)	32.69	32.96	33.23	33.49
Short circuit current (I _{sc} / A)	10.85	10.87	10.91	10.93

Electrical Specifications (Integrated power)

Pmpp gain	Pmpp / Wp	Vmpp / V	I _{mpp} / A	Voc / V	Isc / A
5%	389	28.77	13.52	34.41	14.29
10%	407	28.77	14.15	34.41	14.97
15%	426	28.78	14.80	34.42	15.65
20%	444	28.78	15.43	34.42	16.33
25%	463	28.79	16.08	34.43	17.00

Electrical characteristics with different rear power gain (reference to 370W)

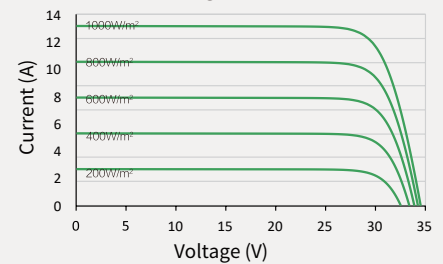
Temperature Ratings (STC)

Operating Parameters

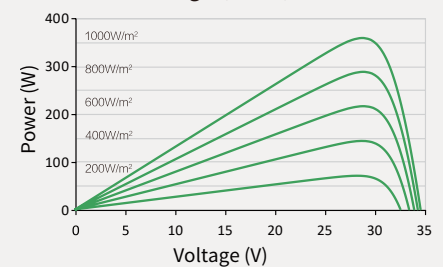
Temperature coefficient (P _{mpp})	-0.29%/°C	No. of diodes	3
Temperature coefficient (I _{sc})	+0.043%/°C	Junction box IP rating	IP 68
Temperature coefficient (V _{oc})	-0.25%/°C	Max. series fuse rating	30 A
Nominal module operating temperature (NMOT)	41±2°C	Max. system voltage (IEC/UL)	1500V _{DC}

Curve

Current-Voltage (370W)



Power-Voltage (370W)



Current-Voltage (370W)

