MESOL SOLAR



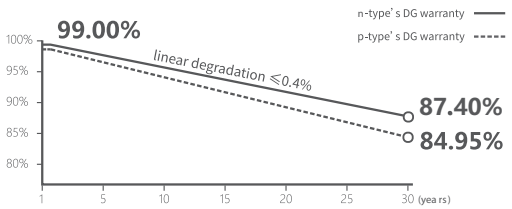
ALPHA N5
Bi-Facial Series

715~720W
24BB

Warranty

12 12-year Product Warranty

30 30-year Linear Power Warranty



Key Features

- TOPCon / Half-cut
- Low temperature coefficient (Pmpp)
- Non-destructive cutting
- PID resistance
- Low BOS cost & LCOE
- Bifacial gain

Assist carbon neutrality CO_2

TÜVRheinland CERTIFIED

c UL us LISTED

2022 T OP Performance PVEL

Tier 1 BloombergNEF

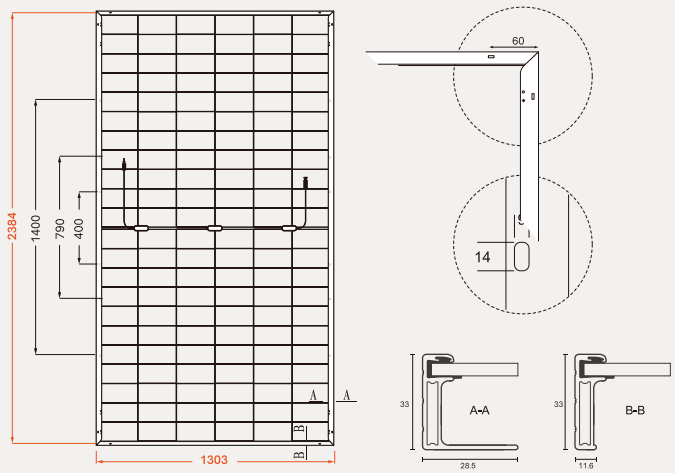
Underwritten by International Insurer

MESOL SOLAR

715~720W	0~+5W	23.02%	≤ 1.0%	≤ 0.4%
POWER RANGE	POWER SORTING	MAX MODULE EFFICIENCY	FIRST YEAR POWER DEGRADATION	YEAR 2-30 POWER DEGRADATION

Mechanical Specifications

Cell Type	N-type 210x105mm
No.of Cells	132cells (Half-Cell)
Dimensions	2384×1303×33mm
Weight	36.7kg
Front Glass	2.0mm AR coating tempered glass
Back Glass	2.0mm Glazed glass
Frame	Anodized Aluminium Alloy
Junction box	IP 68, 3 Bypass Diodess
Output cables	4mm², symmetrical lengths 1300mm
MaxWind Load/Snow Load	2400Pa /5400Pa
Weight of packing unit (for 40'HQ container)	1215 kg
Modules per 40' HQ container	594 pcs



① Refer to 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

Maximum Power (Pmax/W)	715	720	725
Open-circuit Voltage (Voc/V)	48.2	48.4	48.6
Maximum Power Voltage (Vmp/V)	40.6	40.8	41.0
Short-circuit Current (Isc/A)	18.67	18.73	18.79
Maximum Power Current (Imp/A)	17.61	17.65	17.68
Module Efficiency (STC)	23.02%	23.18%	23.34%

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

Maximum Power (Pmax/W)	539	543	546	550
Open-circuit Voltage (Voc/V)	45.8	46.0	46.2	46.4
Maximum Power Voltage (Vmp/V)	38.6	38.8	39.0	39.1
Short-circuit Current (Isc/A)	15.07	15.12	15.17	15.22
Maximum Power Current (Imp/A)	13.97	14.00	14.03	14.06

Electrical Specifications (Integrated power)

Pmpp gain	5%	10%	5%	10%	5%	10%	5%	10%	5%	10%	5%	10%
Pmpp / Wp	730	765	735	770	740	776	746	781	751	787	756	792
Vmpp / V	40.3	40.3	40.5	40.5	40.7	40.7	40.9	40.9	41.1	41.1	41.3	41.3
Impp /A	18.11	18.98	18.15	19.02	18.20	19.06	18.23	19.10	18.27	19.14	18.31	19.18
Voc / V	48.3	48.3	48.6	48.6	48.8	48.8	49.0	49.0	49.2	49.2	49.4	49.4
Isc / A	19.19	20.11	19.24	20.15	19.28	20.20	19.32	20.24	19.36	20.28	19.41	20.34

Electrical characteristics with different rear power gain (reference to 715W)

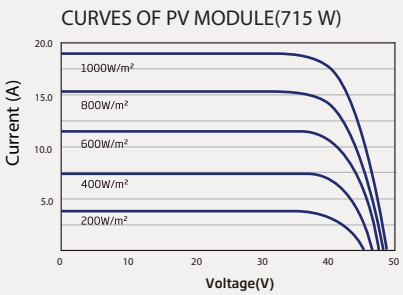
Temperature Ratings (STC)

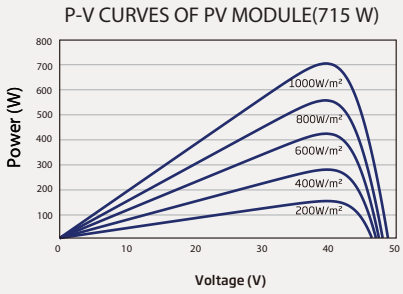
Temperature Coefficient of P_{MAX}	- 0.29%/°C
Temperature Coefficient of V_{OC}	- 0.24%/°C
Temperature Coefficient of I_{SC}	0.04%/°C
NOCT (Nominal Operating Cell Temperature)	45°C (±2°C)

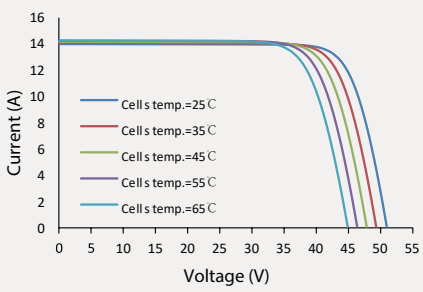
Operating Parameters

No. of diodes	3
Junction box IP rating	IP 68
Max. series fuse rating	30 A
Max. system voltage (IEC/UL)	1500V $_{DC}$

Curve







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