

PHOTOVOLTAIC MONO SUPER BLACK MODULE PVMB 340-370 (72 CELLS)

19.0%

Maximum Efficiency

0~+5W

Power Tolerance

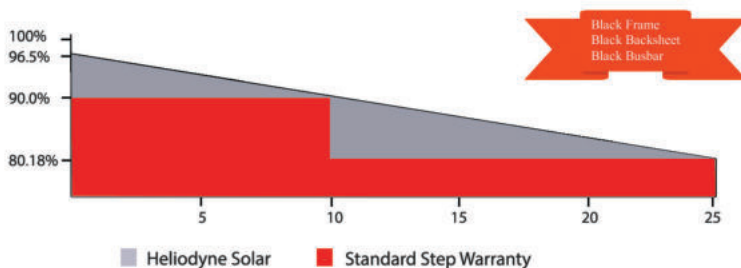
Product Specifications

Heliodyne's Photovoltaic Mono Super Black Module is a PID free (Potential Induced Degradation Free) module consisting of Anti-PID cell technology and Anti-PID encapsulation technology. The lower annual power degradation and current sorting reduce the mismatch power loss in system operation. In order to improve safety, the panels are installed with 1500VDC (TUV)/ 1500VDC (CSA). The Panel is further certified for

- Quality Management Systems: UL 1703, IEC 61215, IEC 61730 and CE ISO 9001
- Environmental Management Systems: ISO 14001
- Occupational Health and Safety System: ISO 18001
- Our products have been certified for 2 EL inspections per cell/module for defect-free consistency
- Load certificates: wind to 2400Pa and snow to 5400 Pa



LINEAR PERFORMANCE WARRANTY



ISO 14001:2015



OHSAS 18001:2007



ISO 9001:2015



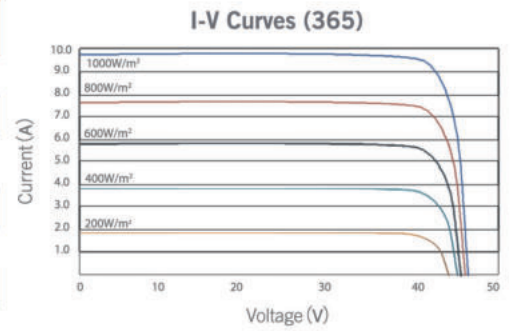
**EXCELLENCE
BY DESIGN™**

TECHNICAL SPECIFICATIONS

Electrical Specifications (standard test conditions)

Maximum Power -P _{MAX} (Wp)	340	345	350	355	360	365	370
Power Tolerance -P _{MAX} (W)				0 ~ +5			
Maximum power point of operating voltage -VMPP (V)	38.2	38.5	38.7	38.8	39.0	39.3	39.7
Maximum power point of operating current -IMPP (A)	8.90	8.96	9.04	9.15	9.24	9.30	9.33
Open circuit voltage -V _{oc} (V)*	46.2	46.7	47.0	47.4	47.7	48.0	48.3
Short circuit current - I _{sc} (A)	9.50	9.55	9.60	9.65	9.70	9.77	9.83
Module Efficiency η (%)	17.5	17.7	18.0	18.3	18.6	18.8	19.0

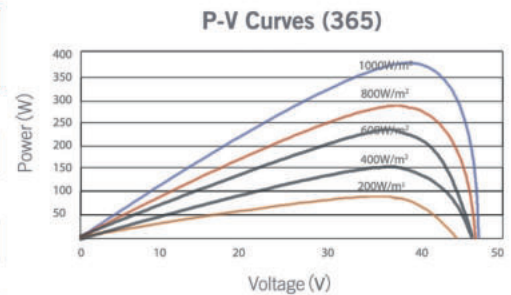
Standard test conditions under Measured Value:(AM1.5, Irradiance 1000W / m², cell temperature 25 ° C)



Electrical Index (under nominal operating cell temperature conditions)

Maximum Power-P _{MAX} (Wp)	253	257	261	264	268	272	276
Maximum power point of operating voltage -VMPP (V)	35.4	35.7	35.9	36.0	36.2	36.4	36.8
Maximum power point of operating current -IMPP (A)	7.15	7.20	7.26	7.34	7.42	7.47	7.50
Open circuit voltage -V _{oc} (V)*	42.9	43.4	43.7	44.1	44.3	44.6	44.9
Short circuit current - I _{sc} (A)	7.67	7.71	7.75	7.79	7.83	7.89	7.94

NOCT: Irradiance 800W / m², ambient temperature of 20 ° C, wind speed 1m / s



Temperature Rating

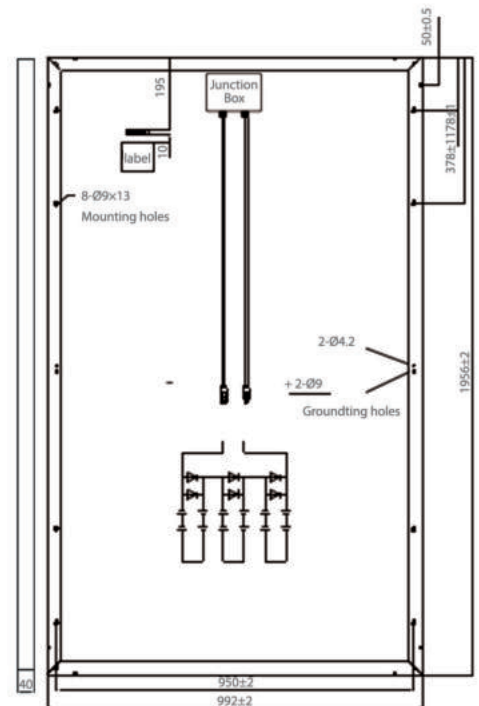
Limit parameter

Nominal Operating Cell Temperature (NOCT)	44°C (±2°C)	Working Temperature	-40~+85°C
Maximum power (P _{MAX}) Temperature Coefficient	- 0.39%/°C	Maximum fuse rated Current	15A
Open-circuit voltage (VOC) Temperature Coefficient	- 0.29%/°C	Maximum system voltage	1500VDC (TUV)
Short circuit current (ISC) Temperature Coefficient	0.05%/°C	Maximum system voltage	1500VDC (CSA)

Mechanical Specifications

156.75mm × 156.75mm Mono-crystalline

Number of Cells	1 module 72pieces (6 × 12)
Dimensions	1956*992*40mm 77.00*39.06*1.57 inch
Weight	23 kg
Glass	3.2mm, High transparency, anti-reflective coatings toughened glass
Junction Box	Protection level IP 68
Frame	Black, anodized aluminum
Backsheet	Black
Busbar	Black
Cable	4.0 mm ² , 1200 mm Photovoltaic dedicated cables
Connector	MC4 compatible



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