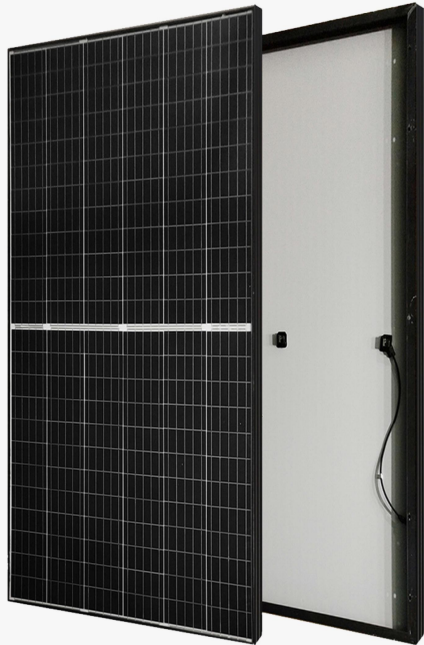


HG-590-182N/144

Pendora Solar

HIGH PERFORMANCE
MONOCRYSTALLINE TOPCON MODULE

Black SERIES



Size: 2279x1134x35mm
Cell: 182mm

144CELL
TOPCON Module

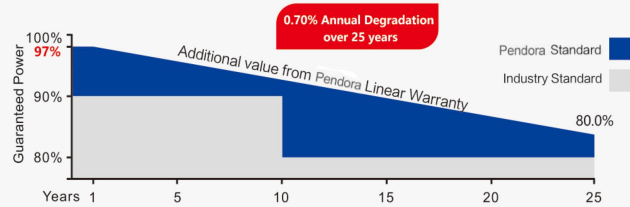
565-590Wp
Power Output Range

1500VDC
Maximum System Voltage

22.83%
Maximum Efficiency

LINEAR PERFORMANCE WARRANTY

12 year Product Warranty / 25 year Linear Power Warranty



★ Please check the valid version of Limited Product Warranty which is officially released by Pendora Solar.



KEY SALIENT FEATURES



Independently certified state-of-the-art automated manufacturing



Dual stage 100% EL Inspection warranting defect-free product



Industry leading lowest thermal co-efficient of power



Module Imp binning radically reduces string mismatch losses



Industry leading 12 years product warranty



Warranted reliability and stringent quality assurances well beyond certified requirements



Excellent low irradiance performance



Certified to withstand severe environmental conditions



Excellent PID resistance

- ◆ Anti-reflective & anti-soiling surface minimise power loss from dirt and dust
- ◆ Severe salt mist, ammonia & blown sand resistance, for seaside, farm and desert environments
- ◆ Excellent mechanical load 2400Pa & snow load 5400Pa resistance



Positive tight power tolerance

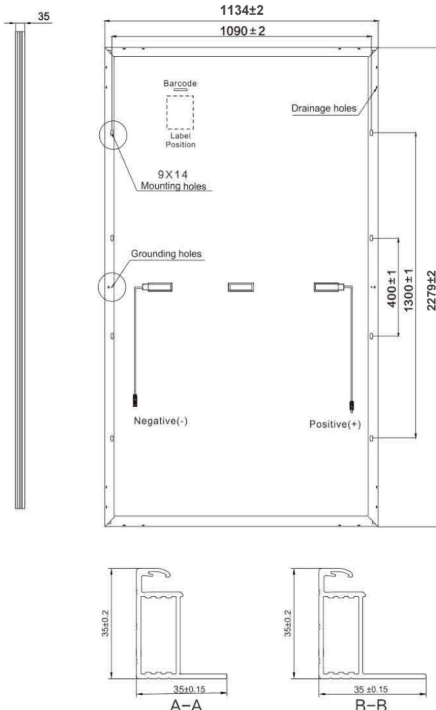
Pendora

Add: Lindestrass 22 Schardstorf DE 18196 Dummerstorf

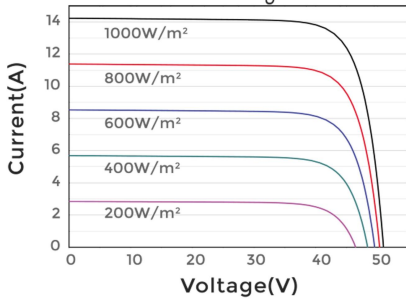
HG-590-182N/144

Pendora Solar

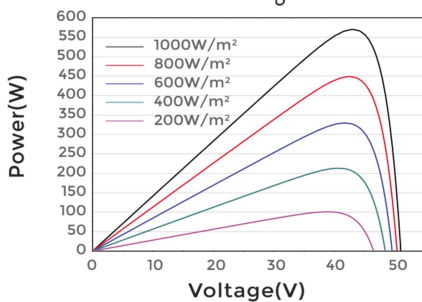
Dimensions of PV Module Unit: mm



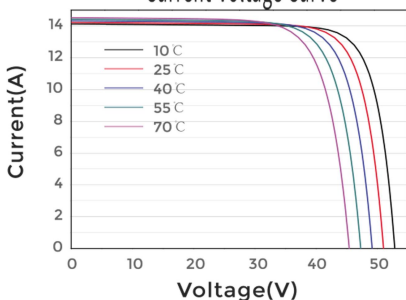
Current-Voltage Curve



Power-Voltage Curve



Current-Voltage Curve



ELECTRICAL DATA (STC)

Model Number	HG-565-182N/144	HG-570-182N/144	HG-575-182N/144	HG-580-182N/144	HG-585-182N/144	HG-590-182N/144
Rated Power In Watts-Pmax(Wp)	565	570	575	580	585	590
Open Circuit Voltage-Voc(V)	51.30	51.52	51.73	51.95	52.16	52.37
Maximum Power Voltage-Vmpp(V)	43.42	43.62	43.82	44.02	44.22	44.43
Short Circuit Current-Isc(A)	13.69	13.74	13.79	13.84	13.89	13.94
Maximum Power Current-Imp(A)	13.01	13.07	13.12	13.17	13.23	13.28
Module Efficiency(%)	21.86	22.06	22.25	22.44	22.64	22.83

STC: Irradiance 1000 W/m², Cell Temperature 25°C, Air Mass AM1.5 according to EN 60904-3.

★ Module Efficiency (%): Round-off to the nearest number

MECHANICAL DATA

Solar cells	Monocrystalline
Cell size	182mmx91mm
Cell configuration	144 cells(6x12+6x12)
Module dimensions	2279x1134x35mm
Weight	28.6kg
Superstrate	High Transmission, Low Iron, Tempered ARC Glass
Substrate	White Back-sheet
Frame	Anodized Aluminium Alloy type 6005T6, Black Color
J-Box	Potted, IP68, 1500VDC, 3 Schottky bypass diodes
Cables	4.0mm ² , Positive(+)300mm, Negative(-)300mm (Connector Included)
Connector	PV-CY03L,IP68

TEMPERATURE & MAXIMUM RATINGS

Nominal Module Operating Temperature (NMOT)	44°C±2°C
Temperature Coefficient of Voc	-0.27%/°C
Temperature Coefficient of Isc	0.04%/°C
Temperature Coefficient of Pmax	-0.36%/°C
Operational Temperature	-40°C~+85°C
Maximum System Voltage	1500VDC
Max Series Fuse Rating	25A
Limiting Reverse Current	30A

PACKAGING CONFIGURATION

	40ft(HQ)
Number of modules per container	620
Number of modules per pallet	31
Number of pallets per container	20
Packaging box dimensions (LxWxH) in mm	2310x1135x1260
Box gross weight[kg]	916

CAUTION:READ SAFETY AND INSTALLATION INSTRUCTIONS BEFORE USING THE PRODUCT.

©2022 Pendora Solar. All rights reserved. Specifications included in this datasheet are subject to change without notice.