

Highly Efficient * Durable * Reliable

Product Features

- High cell efficiency with quality silicon material for long term output stability and reliability
- Stringent quality control to meet the highest international standards
- High transmittance, low iron tempered glass with enhanced stiffness and impact resistance
- Unique frame design with high mechanical strength for easy installation
- Advanced encapsulation material with multilayer sheet lamination to provide long-life and enhanced cell performance
- Outstanding electrical performance under high temperature and low irradiance conditions
- 72 polycrystalline high-efficiency solar cells (approx. 17%)
- Entire module certified to withstand high wind loads (2400 Pascal) and snow loads (5400 Pascal)
- All critical components from well-known manufacturers

Applications

- Any large or small on-grid /off-grid solar power station
- Residential/Commercial/Industrial building roof-top systems
- Any commercial/industrial ground mount system
- Other industrial and commercial applications

Warranty & Certifications

- 5 year limited product warranty on materials and workmanship
- 10 years for 90% power output
- 25 years for 80% power output



IEC 61215 IEC 61730,

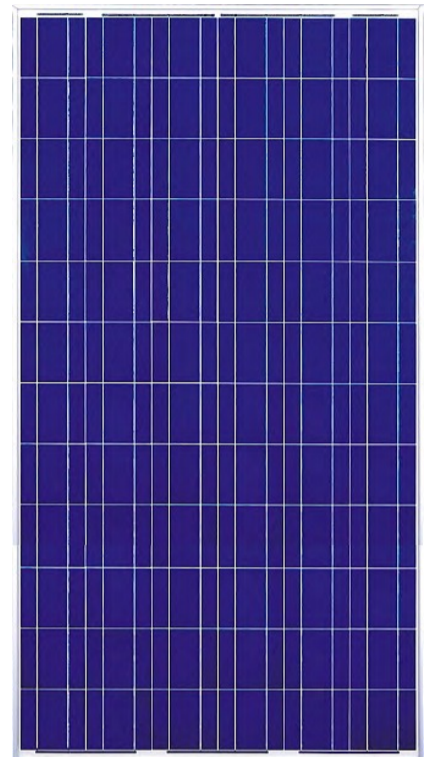


CE Certified,



UL 1703

ENP-M280PO
ENP-M270PO
ENP-M260PO
ENP-M250PO



Components & Mechanical Data

Front Glass	High Transparency Tempered Glass, 3.2mm - Saint Gobain (Albarino) // CSG
Junction Box	Tyco, 1740971-1
Bypass Diode	Diotec SL1515 (15A)
Output Cables	Cable Tyco 1m, ZHSCG (4mm ² and 12AWG), IEC and UL approved
Connectors	MC4 // Tyco, IP67, IEC & UL approved
Frame	Anodized aluminum alloy type 6063-T5
Encapsulation Material	Bridgestone EVAS11 (0.50 + 0.03mm thickness)
Back Foil	White TPT ISOVOLTA 3469(0.32mm thickness, Dupont cast film) //Krempel PTL 1000 (0.32mm thickness, Dupont cast film) //SFC TT350 (0.35mm thickness, Dupont original film)
Silicone Sealant	Dow Corning 7091 // TONSUN 1527
Max Load	5400 Pa
Impact Resistance	Steel ball - 1040g dropped from 1m high
Dimensions	1956 × 992 × 50mm (77.0 × 39.0 × 2.0 inches)
Weight	23 kg (50.7 lbs.)
Solar Cell	Polycrystalline 156 × 156 mm (6 inches)
Number of Cells	72 (6 x 12)

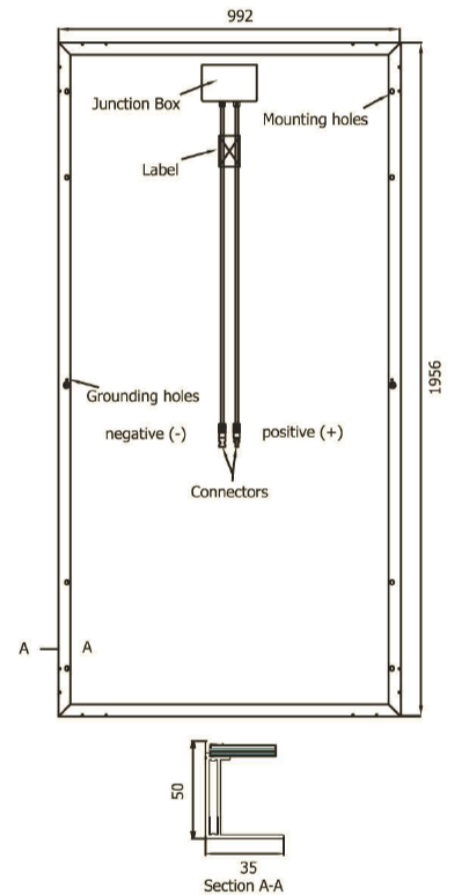
Electrical Characteristics				
Standard Test Conditions (STC)	ENP-M280PO	ENP-M270PO	ENP-M260PO	ENP-M250PO
Maximum Power at STC P_{max} (W)	280	270	260	250
Max-Power Voltage V_m (V)	35.2	35.1	34.8	34.6
Max-Power Current I_m (A)	7.95	7.70	7.47	7.23
Open-Circuit Voltage V_{oc} (V)	44.8	44.6	44.2	43.7
Short-Circuit Current I_{sc} (A)	8.35	8.22	8.10	7.98
Cell Efficiency	16.3%	15.7%	15.1%	14.6%
Maximum System Voltage (V)	1000V(TUV), 600V(UL)			
Maximum Series Fuse Rating	15 A			
Power Tolerance	±3.0%			
Operating Temperature	-40 °C to +90 °C			

STC: irradiance 1000 W/m², module temperature 25 °C, AM=1.5. Deviation of V_m , I_m , V_{oc} , I_{sc} of ±10%

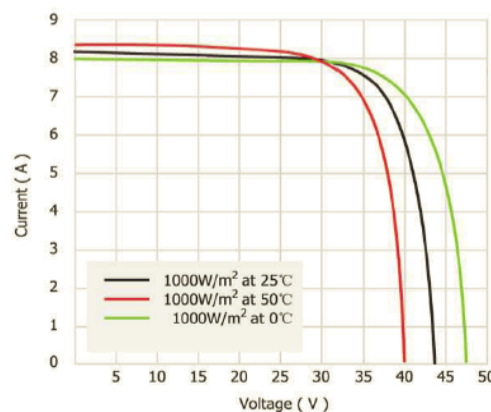
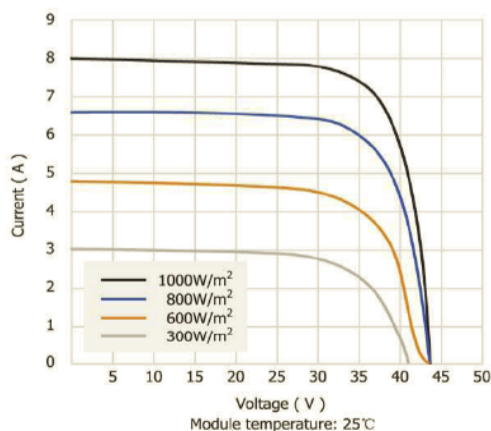
Temperature Coefficients	
NOCT (°C)	45±2
Current Temperature Coefficient of I_{sc} (%/°C)	0.06±0.01
Voltage Temperature Coefficient of V_{oc} (%/°C)	-0.34±0.01
Temperature Coefficient of I_m (%/°C)	-0.02±0.01
Temperature Coefficient of V_m (%/°C)	-0.50±0.01
Temperature Coefficient of P_m (%/°C)	-0.40±0.05


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

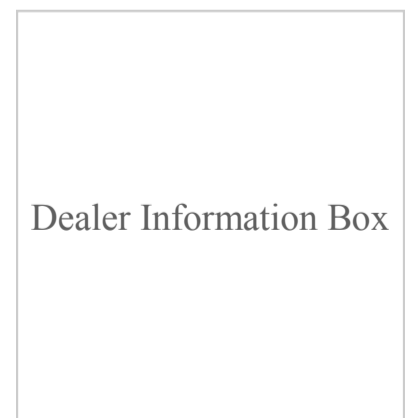
Packing Configuration	
Number of modules per box	18
Box size L x W x H (mm)	2009×1045×120
Box Gross Weight	440.0 kg (970.0 lbs)
Boxes per Pallet	1
Pallets per 20'GP container	11
Pallets per 40'GP container	22



Current-Voltage & Power-Voltage Curve



 Electrical equipment, check with your installer



Specifications are subject to change without prior notification