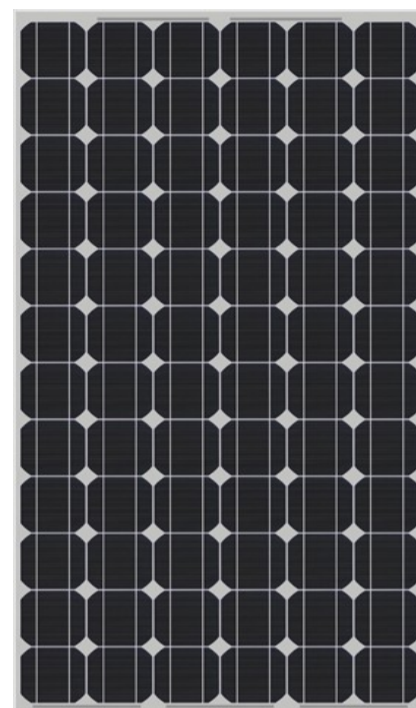


Highly Efficient * Durable * Reliable

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 level 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 mono-crystalline, 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

ENP-M185MO
 ENP-M180MO
 ENP-M175MO
 ENP-M170MO
 ENP-M165MO



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

Components & Mechanical Data

Front Glass	High Transparency Tempered Glass, 3.2mm - Saint Gobain (Albarino) // CSG
Junction Box	Huber+Suhner (IP 67) Radox RH3 // Tyco, 1740971-1
Bypass Diode	3 diodes - ST STPS145 // 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	EVA (0.50 + 0.03mm thickness)
Back Foil	White TPT (0.32+0.03mm thickness)
Silicone Sealant	Dow Corning
Temperature Range	-40°C to +90°C
Max Load	6400 Pa
Impact Resistance	Steel ball - 1040g dropped from 1m high
Dimensions	1580 × 808 × 35mm (62.2 × 31.8 × 1.4 inches)
Weight	15.5 kg (34.1 lbs.)
Solar Cell	Monocrystalline 125 × 125 mm (5 inches)
Number of Cells	72 (6 x 12)

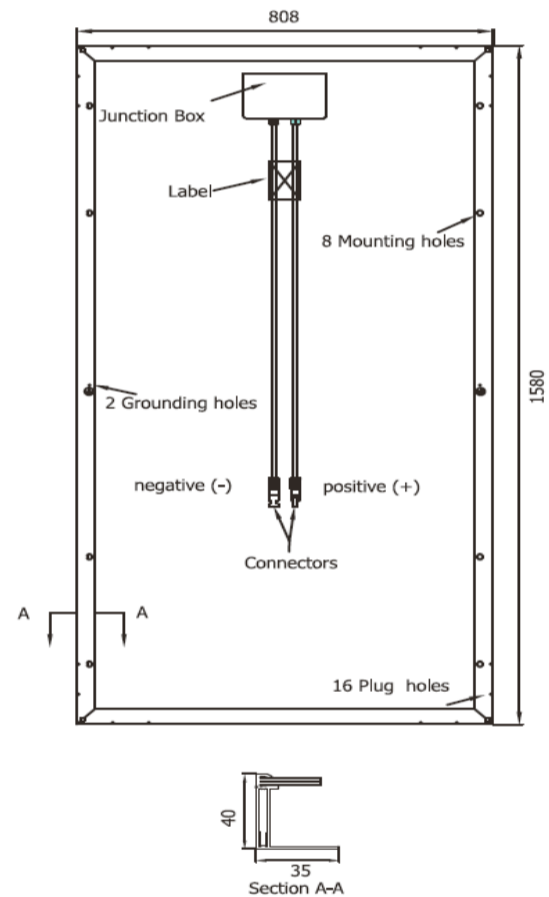
Electrical Characteristics					
Standard Test Conditions (STC)	ENP-M185MO	ENP-M180MO	ENP-M175MO	ENP-M170MO	ENP-M165MO
Maximum Power at STC P_{max} (W)	185	180	175	170	165
Max-Power Voltage V_m (V)	36.0	35.8	35.6	35.4	35.2
Max-Power Current I_m (A)	5.14	5.03	4.92	4.81	4.69
Open-Circuit Voltage V_{oc} (V)	44.8	44.6	44.4	44.2	44.0
Short-Circuit Current I_{sc} (A)	5.43	5.38	5.29	5.19	5.03
Cell Efficiency	17.6%	17.2%	16.7%	16.2%	15.7%
Maximum System Voltage (V)	1000V(TUV), 600V(UL)				
Maximum Series Fuse Rating	15 A				
Power Tolerance	±3.0%				
Operating Temperature	-40 °C to +85 °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%

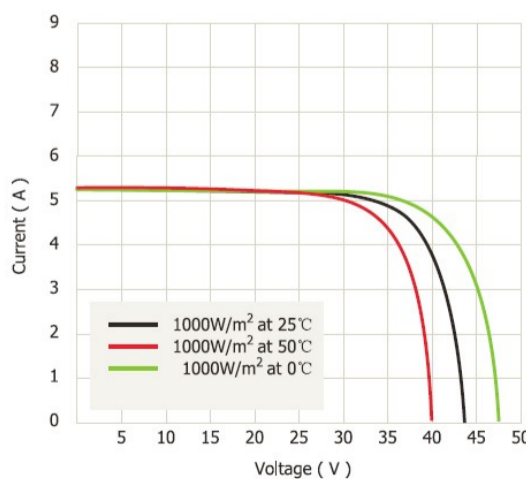
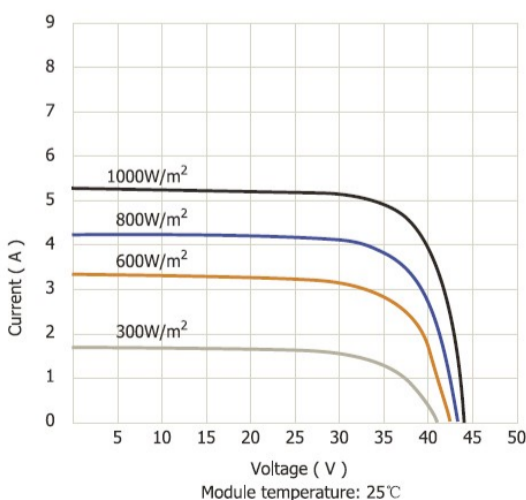
Temperature Coefficients	
NOCT (°C)	45±2
Current Temperature Coefficient of I_{sc} (%/°C)	0.03±0.01
Voltage Temperature Coefficient of V_{oc} (%/°C)	-0.34±0.01
Temperature Coefficient of I_m (%/°C)	-0.05±0.01
Temperature Coefficient of V_m (%/°C)	-0.50±0.01
Temperature Coefficient of P_m (%/°C)	-0.40±0.05

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

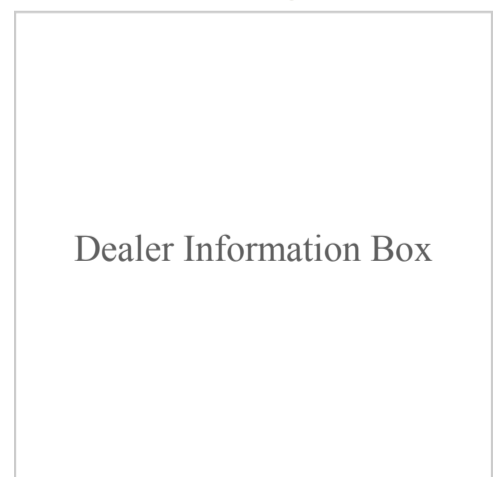
Packing Configuration	
Number of modules per box	23
Box size L x W x H	1633×861×1200
Box Gross Weight	360.0kg (793.7 lbs)
Boxes per Pallet	1
Pallets per 20'GP container	14
Pallets per 40'GP container	28



Current-Voltage & Power-Voltage Curve



Electrical equipment, check with your installer



Specifications are subject to change without prior notification