MNYENERGY

MNY-P265/275 SOLAR PANEL

Product Features:

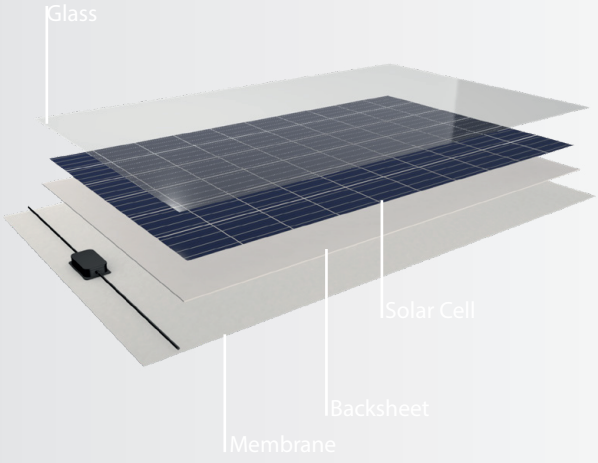
• 60 high efficiency polycrystalline cells • 265-275 W capacity
• Total system weight: 9.3 kg/m2
• 25 years performance warranty
The product features polycrystal with glass surface along with PVC TPO membrane instead of a frame.
Thanks to the membrane, the module is secured to PVC, EVA or TPO roofs with only hot air welding and without requiring any fasteners.

Basic Product Superiorities:

• Adding 9.3 kg of static load per m2 with a module weight of 20.3 kg
• Excellent resistance to corrosion and outdoor conditions thanks to frameless encapsulation technology
• Manufactured in state-of-the-art, fully-automated and robotic production line
• Has B Roof T1 fire certificate
• Full sealing on applied roof surface and roof cover life is extended to 25 years
• Faster installation than conventional systems
• PID Resistant (Frameless design)

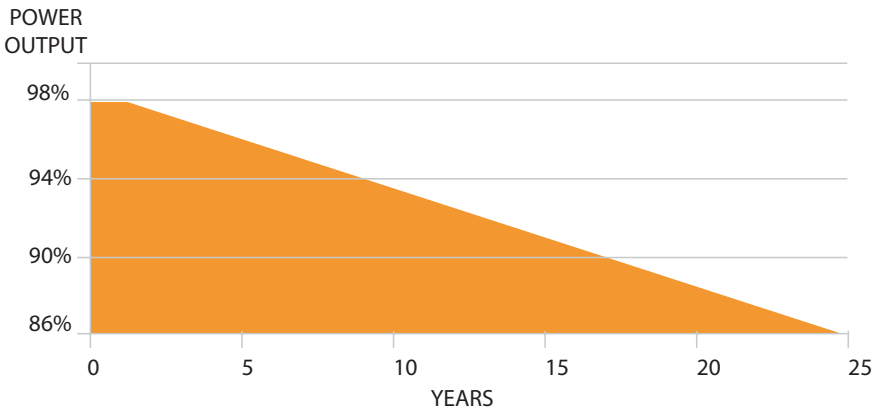
Product Benefits

• Laminating membranes to each other by hot air welding
• Installation with robot or hand-held welding machine
• Application without mechanical fasteners, ballasting and strengthening
• Extra durability against natural disasters
• Waterproofing supplied by membrane



Membrane solar module

Membrane solar module was obtained by adding membrane (which is an insulation material) to the silicon based solar modules. The roof type, membrane solar module was specially designed for industrial, low pitched and large roofs in order to meet the increasing solar energy requirement in TPO / PVC membrane roofs.
The product was developed from monocrystalline and polycrystalline solar modules, both of which can be integrated directly into the membrane roofs.
One of the product's most important advantage is its ability to strengthen the water-resistant and waterproof characteristics by utilizing the membrane without any long and costly operations such as drilling, breaking or adding construction.



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TECHNICAL SPECIFICATIONS

PERFORMANCE

Performance At Standard Test Conditions (STC: 1000 W/m^2, 25°C, spectrum AM 1.5 G)				
Power Class		MNY –P265	MNY –P270	MNY – P275
Nominal Power Pmax	[W]	265	270	275
Voltage At Maximum Power Vmp	[V]	31.2	31.4	31.6
Current At Maximum Power Imp	[A]	8.5	8.6	8.7
Open Circuit Voltage Voc	[V]	38.2	38.4	38.5
Short Circuit Current Isc	[A]	9.19	9.28	9.4

Performance At Nominal Operating Cell Temperature (NOCT: 46 ± 2 °C @800 W/m , 20°C ambient temperature, spectrum AM 1.5 G)				
Power Class		MNY –P265	MNY –P270	MNY – P275
Nominal Power Pmax	[W]	265	270	275
Voltage At Maximum Power Vmp	[V]	29	29.3	29.6
Current At Maximum Power Imp	[A]	6.78	6.85	6.93
Open Circuit Voltage Voc	[V]	35.4	35.6	36
Short Circuit Current Isc	[A]	7.39	7.45	7.54

TEMPERATURE EFFECTS

Temperature coefficient of Pmax	-0.39 %/ °C
Temperature coefficient of Voc	-0.31 %/ °C
Temperature coefficient of Isc	+0.04 %/ °C

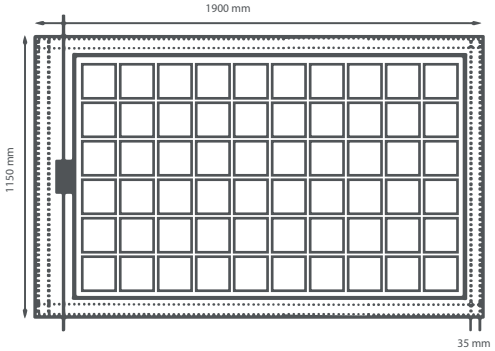
OPERATING LIMITS

Maximum System Voltage	1000 V
Ambient Temperature Range	-40 ... +85 °C
Maximum Mechanical Load	2400 Pa
Hail Resistance Hailstone	Ø 25 mm at 83 km/h
Maximum Reverse Current	16 A

MECHANICAL CHARACTERISTICS

Module Technology	High quality, frameless, 5-Busbar poly solar module
Number And Type Of Solar Cells	6x10 pieces polycrystalline silicon
Dimensions (L X W X D)	1,900 mm x 1,150 mm x 6.4mm (35 mm including junction box)
Weight	20.3 kg (9.3 kg/m^2)
Junction Box	On module front side, protection class IP 67
Output Terminals	Junction box with two cables 4 mm 0.6 m each, MC 4 Connectors

Measuring tolerances: Nominal Power Pmax ± 3 %, other electrical parameters ± 10 %



IEC EN 61215 *
IEC EN 61730 *

*In progress