

## XMA SOLAR PANEL

# XPV-055-20M

## Monocrystalline PV Solar Panel

### Monocrystal Solar Panel

**55W / 36 cells / 20V**

High efficiency solar cells (3x12 = 36 Cells).  
High performance with low light conditions.  
For severe environmental conditions.  
Manufactured with high quality components.

**MONO**  
**55W**

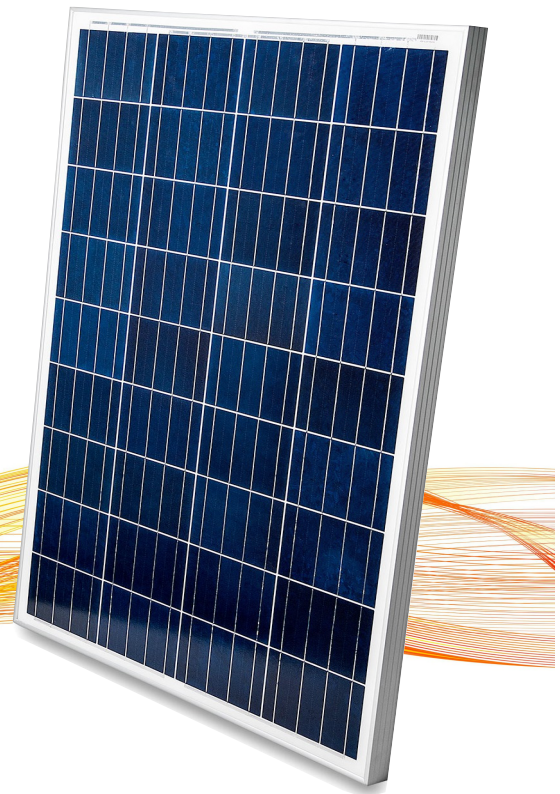
High Efficiency Monocrystal

**VMP**  
**20**

Voltage at Maximum Power

**36**

Cells in Series: 3x12 (166\*41.5mm)

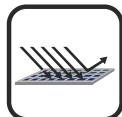


### Outstandings Features

**5**

#### 5 Layers lamination

(1) Low-Iron Tempered Glass+ (2) EVA +  
(3) PV Cells + (4) EVA + (5) Backsheet



#### High Transmission Tempered Glass:

Minimal sun light reflection guaranteed

**AI**

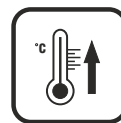
#### Anodized Aluminum Frame:

Corrosion-resistance and structural strength



#### Connection:

Junction box IP65



#### High temperature resistant:

Operation Range: -40 to +85°C

**80%**  
**25**  
**YEARS**

#### Guaranteed Output Power 80%:

During first 25 years

**90%**  
**10**  
**YEARS**

#### Guaranteed Output Power 90%:

During first 10 years

**Product**  
**5**  
**YEARS**

#### Product Warranty

5 years on materials and assembly

**Technical Features / Características Técnicas** **XPV SOLAR PANEL**

# XPV-055-20M

## Electric Specifications (STC\*)

Peak power / Potencia máxima (Pmax)	55W
Cell efficiency / Eficiencia	18.03%
Max. power voltage / Voltaje a potencia max. (Vmp)	20.92V
Max. power current / Corriente a potencia max.	2.63A
Open circuit voltage / Voltaje en abierto (Voc)	24.46V
Short circuit current / Corriente de corto circuito (Isc)	2.75A
Power tolerance / Tolerancia de potencia	3%
Max. system voltage / Voltaje max. del sistema	600V
Max. Overcurrent / Sobrecorriente Máxima	15A
Qty. bypass diodes / Cantidad de diodos de bypass	2 x 12A bypass diodes

(\* Irradiance: 1000W/m<sup>2</sup> / AM1.5G, Module T: 25°C

## Temperature Characteristics

Nominal Operating Temperature / Temp. de operación	42 +/- 2°C
Operating range / Rango de operación	-40 to 85°C
Isc coefficient / Coeficiente (a Isc)	0.046%/°C
Voc coefficient / Coeficiente Temp (b Voc)	-0.26%/°C
Pmax coefficient / Coeficiente (g Pmax).	-0.32%/°C

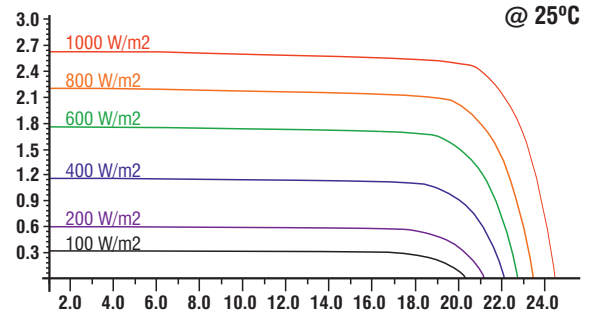
## Connections

Junction Box / Caja de conexiones	Without Cables: IP-65 / With Cables: IP68
Connectors / Conectores	MC4 compatible
Cables	Optional: MC4 / 4mm (60cm)

## Mechanical Specifications

Dimensions / Tamaño	535*570*25mm
Weight / Peso	3.2Kg
Max. Wind Load / Carga máxima por viento	2400 Pa
Snow Load / Carga por Nieve	5400 Pa
Application Class / Clase Aplicación	Class A
Fire Rating / Clasificación Fuego	Class C
Solar Cells Arrangement / Cantidad de celdas	36 in series (3*12) - Cell Type: Mono 166*41.5mm (1/4)
Panel Construcción / Estructura del Panel	5 layers
Tempered Glass / Cristal Templado (EN 1096-4:2004)	High transmission, low-iron Solar Glass / Cristal Solar Anti reflectivo de bajo-hierro (3.2mm)
Backsheet / Laminado trasero (Toyol - TUV)	QPL High Reflectance Anti-UV long lifetime / QPL reflectante / Anti-UV / de larga vida (0.25mm)
EVA: Ethylene Vinyl Acetate (First - UL)	High light transmission + High UV Block / De alta transmisión de luz + alto bloqueo UV (0.45mm)
Solar Cells / Celdas solares (Taiwan # 1 Manufacturer)	"A" grade manufactured in Taiwan / Grado "A" fabricada en Taiwan
Junction Box / Caja de Conexión	IP65 (CE)
Frame / Marco	High corrosion resistance anodized aluminium / Aluminio anodizado resistente a corrosión

## Current (A) vs Voltage (V)



## Output Power vs Years of Operation

