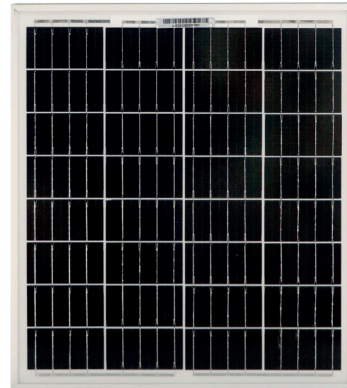


SOLAR PANEL 20 W

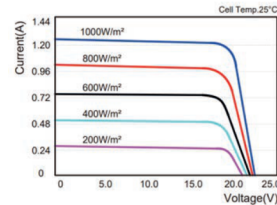
Datos técnicos

Technical data

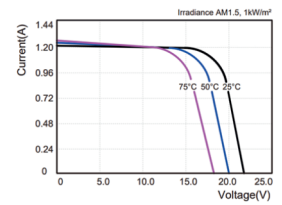
| | |
|---------------------------------------|----------------------|
| Potencia nominal Pmax (W) | 20 |
| Nominal Power Pmax (W) | |
| Tolerancia (%) | +3% |
| Tolerance (%) | |
| Tipo de célula | Monocristalina |
| Kind of cell | Monocrystalline |
| Células por módulo | 3 x 11 = 33 |
| Cells per module | |
| Eficiencia de conversión | 22,5% |
| Conversion efficiency | |
| Tensión máx. potencia Mpp Vmp (V) | 18,0 V |
| Voltage Mpp Vmp (V) | |
| Corriente máx. potencia Mpp Imp (A) | 1,15 A |
| Current Mpp Imp (A) | |
| Tensión circuito abierto Voc (V) | 21,9 V |
| Voltage open circuit Voc (V) | |
| Corriente cortocircuito Isc (A) | 1,22 A |
| Short circuit current Isc (A) | |
| NOCT (C) | 47±2°C |
| Máximo voltaje del sistema (V) | 600 V |
| Max system voltage (V) | |
| Tipo de marco | Alu |
| Kind of frame | |
| Tipo de cristal y espesor (mm) | 3,2 |
| Kind of glass and thickness (in) | 0.12 |
| Número de diodos | 1 |
| Number of diods | |
| Tipo de diodos | 10A10 |
| Type of diods | |
| Coef. de temp. de corriente Iso mA/°C | (0.065 ±0.01)% /°C |
| Temp. coefficient current Iso mA/°C | |
| Coef. de temp. de voltaje Voc mV/°C | -(0.40 ± 0.05)% / °C |
| Temp. coefficient voltage Voc mV/°C | |
| Coef. de temp. de potencia Pmax/°C | -(0.5±0.05)% / °C |
| Temp. coefficient power Pmax/°C | |
| IP | 65 |



Curvas I-V del módulo PV ESF-20MF
I-V Curves of PV module ESF-20MF



Curvas I-V del módulo PV ESF-20MF a varias temperaturas de celda
I-V Curves of PV module ESF-20MF at various cell temperatures



Dimensiones y peso

Dimensions and weight

| | |
|-------------------------|-------|
| Longitud (mm) | 390 |
| Length (in) | 15.35 |
| Anchura (mm) | 350 |
| Width (in) | 13.77 |
| Espesor (sin caja) (mm) | 25 |
| Thickness (in) | 0.98 |
| Peso (kg) | 1,7 |
| Net weight (Lb) | 3.74 |

Embalaje

Packaging

| | |
|------------------------------------|-----------------|
| Unidades por embalaje | 5 uds./pcs |
| Units per carton | |
| Unidades por contenedor (20") | 4.350 uds./pcs |
| Packing in container (20 ft) | |
| Unidades por contenedor (40") | 10.500 uds./pcs |
| Packing in container (40 ft) | |
| Unidades por contenedor (40" H.C.) | 12.000 uds./pcs |
| Packing in container (40 ft H.C.) | |

Dimensiones - Dimensions
ESF-20MF

