

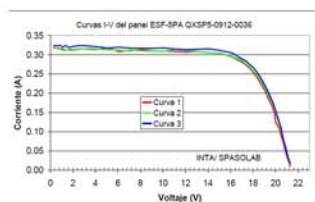
Datos técnicos / Technical data

MODELO / MODEL	ESF-5MA	ESF-5PA	ESF-10MA	ESF10PA
Potencia nominal Pmax (W) Nominal Power Pmax (W)	5	5	10	10
Tolerancia (%) Tolerance (%)	-3%/+5%	-3%/+5%	-3%/+5%	-3%/+5%
Tipo de célula Kind of cell	Monocrystalino Monocrystallin	Policristalina Polycrystalline	Monocrystalino Monocrystallin	Policristalina Polycrystalline
Células por módulo Cells per module	2 X 18= 36	2 X 18= 36	2 x 21= 42	2 x 21= 42
Eficiencia de conversión Conversion efficiency	7,81%	7,81%	9,30%	9,30%
Forma de la célula (mm x mm) Shape of cell (in x in)	78 X 13 3" x 0.51"	78 X 13 3" x 0.51"	156 X 10 6" x 0.39"	156 X 10 6" x 0.39"
Tensión máx. potencia Mpp Vmp(V) Voltage Mpp Vmp (V)	17,02V	17,49V	16,8V	20,8V
Corriente máx. potencia Mpp Imp(A) Current Mpp Imp (A)	0,29A	0,28A	0,6A	0,48A
Tensión circuito abierto Voc(V) Volt open circuit Voc(V)	21,85V	21,67V	21,4V	21,6V
Corriente corto circuito Isc(A) Short circuit current Isc(A)	0,31A	0,30A	0,68A	0,66A
NOCT (C)	47°C ± 2°C	47°C ± 2°C	47°C	47°C
Máximo voltaje del sistema (V) Max system volt (V)	715V	715V	715V	715V
Longitud (mm) Length (in)	320 12.59	320 12.59	367 14.44	367 14.44
Anchura (mm) Width (in)	200 7.87	200 7.87	293 11.53	293 11.53
Espesor (sin caja) (mm) Thickness (in)	17 0.66	17 0.66	25 0.98	25 0.98
Peso (kg) Net weight (Lb)	0,8 1.76	0,8 1.76	1,5 3.30	1,5 3.30
Tipo de marco Kind of frame	Alu	Alu	Alu	Alu
Tipo de cristal y espesor (mm) Kind of frame and its thickness (in)	3.2 mm 0.12"	3.2 mm 0.12 "	PPG 3.2 mm 0.12"	PPG 3.2 mm 0.12"
Número de diodos Number of diods	1	1	1	1
Tipo de diodos Type of diods	0.5A	IN4007 ZX	10A10 NB	10A10 NB
Coef. de temp. de corriente Iso mA/°C Temp. Coefficient current Iso mA/°C	+0.04%/°C	+0.04%/°C	+0.08%/°C	+0.08%/°C
Coef. de temp. de voltaje Voc mV/°C Temp. Coefficient voltage Voc mV/°C	-0.38%/°C	-0.38%/°C	-0.37%/°C	-0.37%/°C
Coef. de temp. de potencia Pmax/°C Temp. Coefficient power Pmax/°C	-0.47%/ °C	-0.47%/ °C	-0.44%/ °C	-0.44%/ °C
Unidades por embalaje Units per carton	10 uds. /pcs.	10 uds. /pcs.	10 uds. /pcs.	10 uds. /pcs.
Unidades por contenedor (20") Packing in container (20 ft)	6.720 uds./ pcs.	6.720 uds./ pcs.	3.200 uds./pcs.	3.200 uds./pcs.
Unidades por contenedor (40") Packing in container (40 ft)	13.440 uds./pcs.	13.440 uds./pcs.	6.600 uds./pcs.	6.600 uds./pcs.
Unidades por contenedor (40"H.C.) Packing in container (40 ft H.C.)	13.910 uds./pcs.	13.910 uds./pcs.	6.750 uds./pcs.	6.750 uds./pcs.

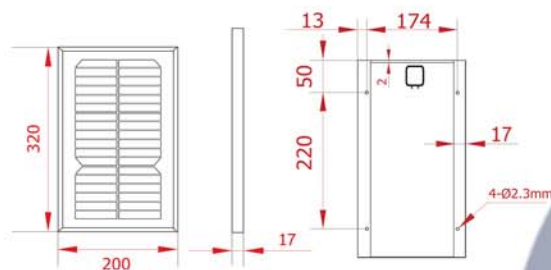
Curvas y dimensiones / Curves and dimensions



ESF-5PA



CURVAS/ CURVES
ESF-5MA ESF-5PA



DIMENSIONES/DIMENSIONS
ESF-5MA ESF-5PA