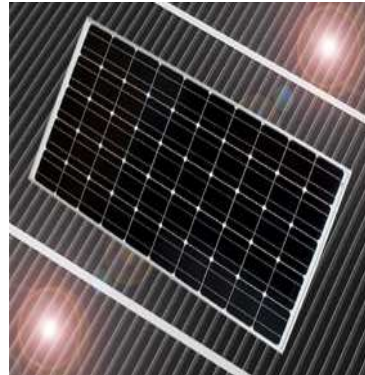
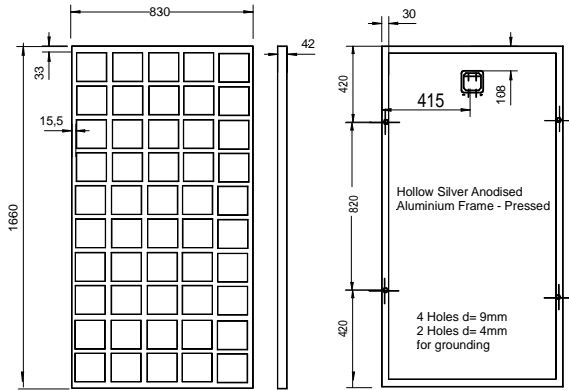


# DATASHEET ENFOTON – 50E6+

## Photovoltaic Multi-Crystalline Solar Module

### Enfoton Standard Series



Weak Light Performance		
Intensity W/m <sup>2</sup>	Umpp	Impp
800	0	-20
600	-0,9	-40
400	-2,1	-60
200	-5,1	-80
100	-8,7	-90

#### Mechanical Characteristics:

- 50 Monocrystalline Photovoltaic Cells per Module
- Size: 1660 x 830mm
- Anodized Aluminium Frame, height 42mm
- Weight 17 kg
- TÜV 5400 Pa tested
- Hail up to 28mm diameter, 86 Km/h tested
- Temperature Range -40 to +85°C
- Nominal operating cell temperature (NOCT): 47°C
- Glass Foil Sandwich Laminate
- EVA encapsulate

#### Certificates:

- TÜV IEC 61215
- TÜV Safety Class II
- TÜV IEC 61730
- TÜV 5400 Pa according to EN IEC 61215

#### Electrical connection:

- Junction Box Spelsberg PV1410
- 3 Bypass Diodes nominal current 12A
- Solar Cable 4 mm<sup>2</sup> 1000mm with MC connectors
- Module connection max 930V in series
- Limiting reverse current IR=13A

#### Electrical Characteristics at STC:

1000W/m<sup>2</sup> at Cell temperature 25°C, AM 1,5

Module	50E6M+175F	50E6M+180F	50E6M+185F	50E6M+190F	50E6M+195F	50E6M+200F	50E6M+205F	50E6M+210F	50E6M+215F
Rated Power	175Wp	180Wp	185Wp	190Wp	195Wp	200Wp	205Wp	210Wp	215Wp
Tolerance:	+/- 3%	+/- 3%	+/- 3%	+/- 3%	+/- 3%	+/- 3%	+/- 3%	+/- 3%	+/- 3%
Open Circuit Voltage (Uoc):	30,00V	30,02V	30,20V	30,30V	30,41V	30,52V	30,55V	30,86V	31,05V
Short Circuit Current (Isc):	8,26A	8,30A	8,38A	8,47A	8,50A	8,54A	8,73A	8,77A	8,84A
Max. Power Voltage (Umpp):	23,94V	24,46V	24,75V	25,00V	25,30V	25,75V	25,95V	26,05V	26,67V
Max. Power Current (Impp):	7,31A	7,36A	7,50A	7,61A	7,70A	7,77A	7,90A	8,06A	8,06A
Temp.Coeff. Isc/K	+0,03%/K	+0,03%/K	+0,03%/K	+0,03%/K	+0,03%/K	+0,03%/K	+0,03%/K	+0,03%/K	+0,03%/K
Temp.Coeff. Uoc/K:	-0,37%/K	-0,37%/K	-0,37%/K	-0,37%/K	-0,37%/K	-0,37%/K	-0,37%/K	-0,37%/K	-0,37%/K
Temp.Coeff. Pmpp/K:	-0,51%/K	-0,51%/K	-0,51%/K	-0,51%/K	-0,51%/K	-0,51%/K	-0,51%/K	-0,51%/K	-0,51%/K

#### Warranty:

Performance warranty: **10 years** with maximum loss of 10% on Power Rating

Performance warranty: **25 years** with maximum loss of 20% on Power Rating

Product warranty : **3 years**



- Qualified, IEC 61215
- Safety tested, TÜV-Spec 931/2.572.9
- Periodic Inspection



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