



MULTI-CRYSTALLINE SOLAR MODULE  
Enfoton 60E6+3bbxxxST  
**POWER CLASSES 230 -250**



Enfoton Solar modules are designed and manufactured for long, reliable operation and high energy production under all climatic conditions. Top quality European materials, strict quality control procedures, excellent technical characteristics and Enfoton's proven expertise combine to ensure a high overall performance and consistently higher energy yields.

**YOUR BENEFITS:**

- **POSITIVE PERFORMANCE SORTING**
- **PRODUCT WARRANTY**  
10 YEARS
- **PERFORMANCE WARRANTY 1**  
10 YEARS WITH MAX. LOSS OF 10% ON POWER RATING
- **PERFORMANCE WARRANTY 2**  
25 YEARS WITH MAX. LOSS OF 20% ON POWER RATING
- **HIGHEST QUALITY COMPONENTS AND CONTINUOUS INCOMING QUALITY CONTROL (IQC)**
- **PROFESSIONAL CUSTOMER RELATIONSHIP MANAGEMENT**
- **CERTIFIED ACCORDING TO IEC EN 61215 FOR 5400 Pa**
- **CERTIFIED ACCORDING TO**  
IEC EN 61730, SAFETY CLASS II  
IEC EN 61215

### Electrical data - STC

Standard Test Conditions: 1000W/m<sup>2</sup>, (25 ±2)°C, AM 1,5 in accordance with EN60904-3

Module Type		60E6+3bb 230ST	60E6+3bb 235ST	60E6+3bb 240ST	60E6+3bb 245ST	60E6+3bb 250ST
Rated Power (Pmpp):	Wp	230	235	240	245	250
Open Circuit Voltage (Uoc):	V	36,17	36,78	37,14	37,32	37,51
Short Circuit Current (Isc):	A	8,13	8,17	8,27	8,37	8,46
Max. Power Voltage (Umpp):	V	30,64	30,67	30,93	31,11	31,49
Max. Power Current (Impp):	A	7,51	7,67	7,75	7,89	7,95
Efficiency		14%	14,3%	14,6%	14,91%	15,21%

### Electrical data - NOCT

Nominal Operating Cell Temperature: 47°C, 800W/m<sup>2</sup>, AM 1,5

Module Type		60E6+3bb 230ST	60E6+3bb 235ST	60E6+3bb 240ST	60E6+3bb 245ST	60E6+3bb 250ST
Rated Power (Pmpp):	Wp	168	171	175	178	182
Open Circuit Voltage (Uoc):	V	33,7	34,26	34,6	34,77	34,94
Short Circuit Current (Isc):	A	6,6	6,63	6,71	6,79	6,87
Rated Voltage (Umpp):	V	28,54	28,57	28,81	28,98	29,34
Rated Current (Impp):	A	5,87	5,99	6,07	6,16	6,21

### Additional electrical data

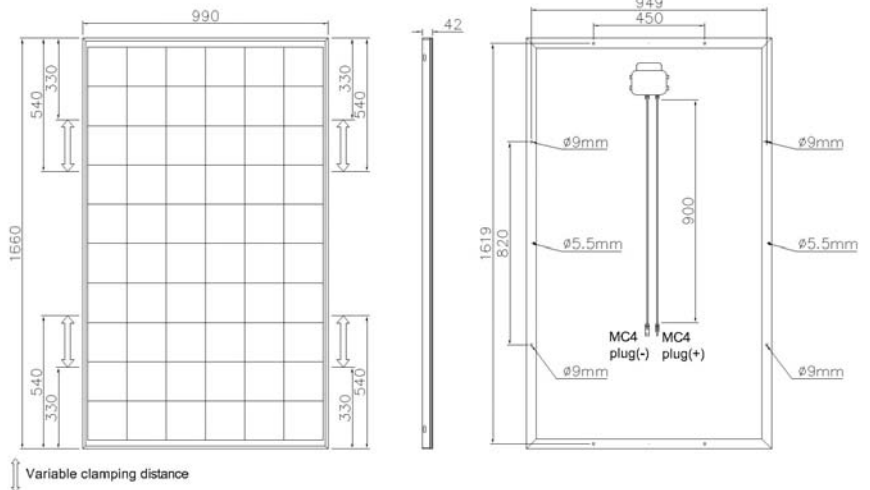
Classification range (positive classification)	W	-0/+3
Measurement accuracy of Pmpp under STC	%	±2,5
Max. System Voltage		1000V
Reverse Current		20A

### Temperature Coefficients (Tc)

Isc / K	+0,0672%
Uoc / K	-0,3110%
Pmpp / K	-0,4063%

### Basic Data

Length x width x height	mm	1660 x 990 x 42
Weight	Kg	21
Number of Cells		60 / 3bus bar
Cell size	mm <sup>2</sup>	156 x 156
Cell Material		Multi-crystalline Si
Cell encapsulation		EVA (Ethylene Vinyl Acetate)
Glass		Tempered prismatic glass, low iron content 3,2 mm
Back Sheet (white/white)		PET (Polyethylene terephthalate)
Frame material		Extruded Anodized Aluminum 42mm
Cable "Flex-Sol-XL"	mm	Length 900 / ø4mm <sup>2</sup>
Connectors		MC4
IP class		IP65
Bypass diodes		3 (nominal current 12A)



Performance Warranty 1: 10 years with max. loss of 10% on Power Rating

Performance Warranty 2: 25 years with max. loss of 20% on Power Rating

Product Warranty: 10 years

### Permissible operating conditions

Temperature range	-40°C to +85°C
NOCT	47°C
Max. surface load capacity	Tested up to 5400 Pa according TÜV
Resistance against impact	Hail up to max. Diameter of 28mm, 86 km/h



- Qualified, IEC 61215
- Safety tested, EN 61730
- Heavy Snow Load tested
- Periodic inspection

Technical specifications are subject to change. © Enfoton Solar Ltd - 01.12

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