



MULTI-CRYSTALLINE SOLAR MODULE Enfoton 50E6+3bbGTxxx

POWER CLASSES 190 -200



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



BABT 8516R1



GINTECH

Electrical data - STC

Standard Test Conditions: 1000W/m², (25 ±2)°C, AM 1,5 in accordance with EN60904-3

| Module Type | | 50E6+3bbGT190 | 50E6+3bbGT195 | 50E6+3bbGT200 |
|------------------------------|----|---------------|---------------|---------------|
| Rated Power (Pmpp): | Wp | 190 | 195 | 200 |
| Open Circuit Voltage (Uoc): | V | 29,8 | 30 | 30,31 |
| Short Circuit Current (Isc): | A | 8,34 | 8,45 | 8,57 |
| Max. Power Voltage (Umpp): | V | 24,4 | 24,94 | 25,22 |
| Max. Power Current (Impp): | A | 7,8 | 7,82 | 7,95 |
| Efficiency | | 13,79% | 14,15% | 14,52% |

Electrical data - NOCT

Nominal Operating Cell Temperature: 47°C, 800W/m², AM 1,5

| Module Type | | 50E6+3bbGT190 | 50E6+3bbGT195 | 50E6+3bbGT200 |
|------------------------------|----|---------------|---------------|---------------|
| Rated Power (Pmpp): | Wp | 137 | 141 | 144 |
| Open Circuit Voltage (Uoc): | V | 27,7 | 27,89 | 28,17 |
| Short Circuit Current (Isc): | A | 6,77 | 6,86 | 6,95 |
| Rated Voltage (Umpp): | V | 22,68 | 23,18 | 23,44 |
| Rated Current (Impp): | A | 6,05 | 6,08 | 6,16 |

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 |

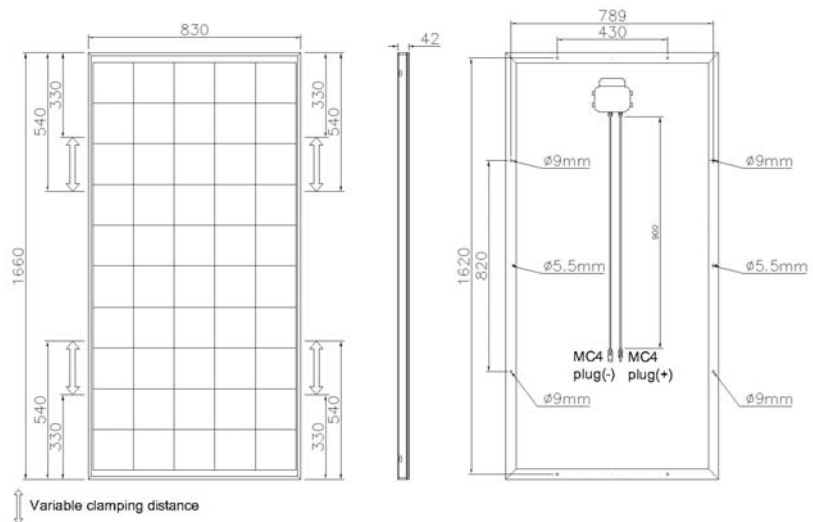
Temperature Coefficients (Tc)

| | |
|----------|----------|
| Isc / K | +0,0654% |
| Uoc / K | -0,3202% |
| Pmpp / K | -0,4417% |



Basic Data

| | | |
|--------------------------|-----------------|---|
| Length x width x height | mm | 1660 x 830 x 42 |
| Weight | Kg | 17 |
| Number of Cells | | 50 / 3bus bar |
| Cell size | mm ² | 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 ² |
| 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, IEC 61730
- Periodic inspection

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

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