



MULTI-CRYSTALLINE SOLAR MODULE Enfoton 48E6+3bbGTxxx

POWER CLASSES 180-200



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		48E6+3bb GT180	48E6+3bb GT185	48E6+3bb GT190	48E6+3bb GT195	48E6+3bb GT200
Rated Power (P _{mpp}):	Wp	180	185	190	195	200
Open Circuit Voltage (U _{oc}):	V	28,32	28,73	29,06	29,25	29,56
Short Circuit Current (I _{sc}):	A	8,34	8,41	8,51	8,6	8,68
Max. Power Voltage (U _{mpp}):	V	23,38	23,76	24,03	24,36	24,68
Max. Power Current (I _{mpp}):	A	7,72	7,79	7,92	8,01	8,11
Efficiency		13,57%	13,95%	14,32%	14,7%	15,08%

Electrical data - NOCT

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

Module Type		48E6+3bb GT180	48E6+3bb GT185	48E6+3bb GT190	48E6+3bb GT195	48E6+3bb GT200
Rated Power (P _{mpp}):	Wp	130	134	137	141	144
Open Circuit Voltage (U _{oc}):	V	26,33	26,71	27,01	27,19	27,48
Short Circuit Current (I _{sc}):	A	6,77	6,82	6,91	6,98	7,04
Rated Voltage (U _{mpp}):	V	21,73	22,09	22,34	22,64	22,94
Rated Current (I _{mpp}):	A	5,98	6,05	6,14	6,22	6,3

Additional electrical data

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

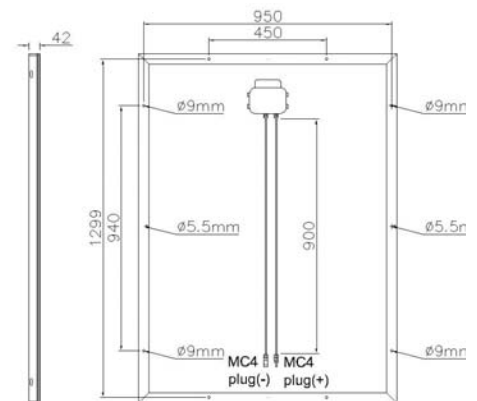
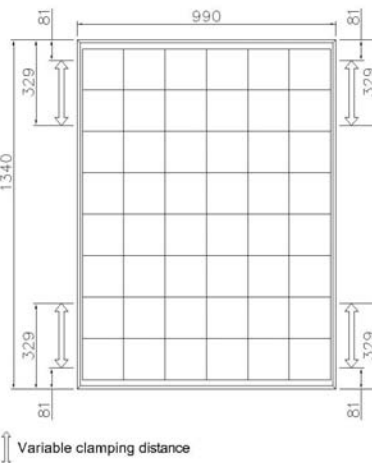
Temperature Coefficients (T_c)

I _{sc} / K	+0,0654%
U _{oc} / K	-0,3202%
P _{mpp} / K	-0,4417%



Basic Data

Length x width x height	mm	1340 x 990 x 42
Weight	Kg	18
Number of Cells		48 / 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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