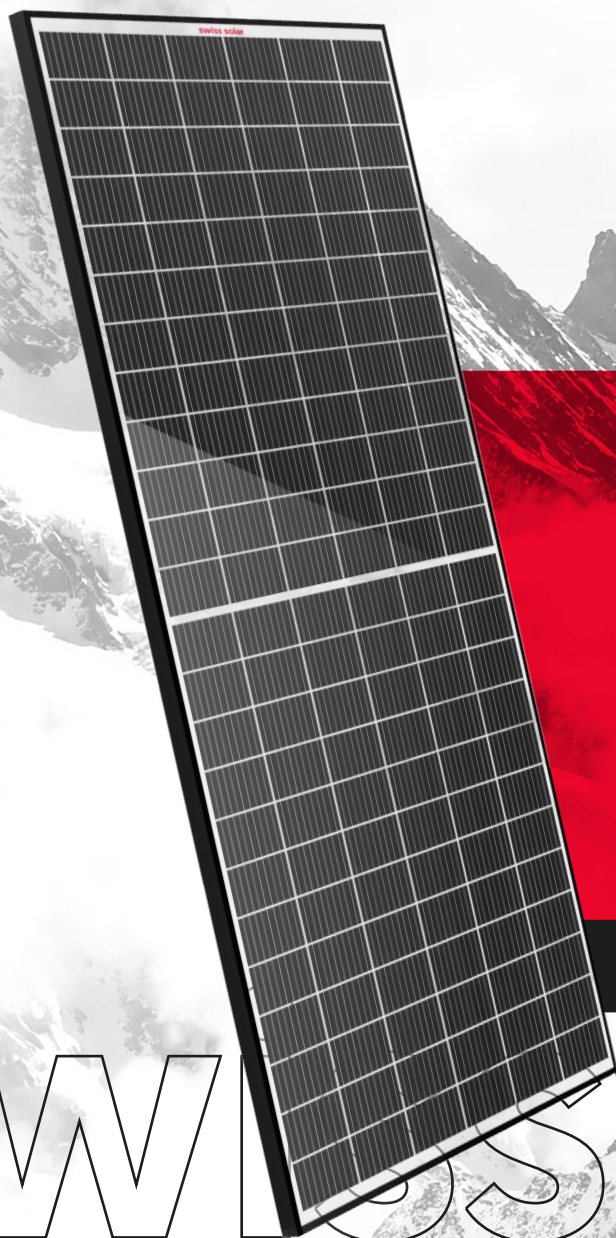




IBEX

HIGH TECHNOLOGY
SOLAR MODULES

**IBEX 144BF
MHC-EIGER**
545/550

10BB HALF-CELL MONO PV MODULE

BIFACIAL HIGH TECHNOLOGY
TRANSPARENT BACKSHEET SOLAR MODULES

SWISS SOLAR

IBEX HIGH EFFICIENCY MONOCRYSTALLINE SOLAR MODULES WITH HALF CELL TECHNOLOGY

0+5

Positive power tolerance (0+5W) guaranteed



High performance under low light.
Works at cloudy, rainy days



The monolithic perc cell structure technology (low resistance characteristics) is adopted (the maximum conversion efficiency of modules is up to 21.28%)



EXTREME WEATHER RATING. High-tech aluminium alloy frame, certified for high snow (5400 Pa) and wind loads (2400 Pa)



Reduced resistance between cells Less micro cracks, higher output power



Combines high efficiency PERC bifacial cells with a dual glass construction, which can convert light that hits the back of the module into electricity, generating up to 25% more energy

- IEC61215(2016), IEC61730(2016)
- ISO9001:2015: Quality Management System
- ISO45001:2018 Occupational health and safety management systems



IBEX 144BF-MHC-EIGER 545-550

MONOCRYSTALLINE SOLAR MODULE

ELECTRICAL DATA AT STC

Module Type	545W	550W	
	STC	STC	
Rated power P _{mp} [Wp]	545	550	
P _{mp} range to	0/+5W	0/+5W	
Rated current I _{mp} [A]	13.01A	13.06A	
Rated voltage V _{mp} [V]	41.93V	42.10V	
Short-circuit current I _{sc} [A]	13.92A	14.01A	
Open-circuit voltage U _{oc} [V]	49.90V	50.10V	
Efficiency at STC up to	21.08%	21.28%	
Application Class	Class A	Class A	

ELECTRICAL CHARACTERISTICS WITH DIFFERENT REAR SIDE POWER GAIN

5%	Maximum Power At STC (P _{max})	575W	562W	567W	572W	578W
	Module Efficiency STC (%)	21.53%	21.74%	21.94%	22.14%	22.35%
15%	Maximum Power At STC (P _{max})	610W	615W	621W	627W	633W
	Module Efficiency STC (%)	23.58%	23.81%	24.03%	24.25%	24.47%
25%	Maximum Power At STC (P _{max})	663W	669W	675W	681W	688W
	Module Efficiency STC (%)	25.63%	25.88%	26.12%	26.36%	26.60%

STC: 1000W/m² irradiance, 25°C cell temperature, AM1.5.

LIMITING VALUES

Max. system voltage [V]	1500V DC (IEC)
Max. return current [I]	30A
Operating Temperature	- 40 to +85°C
Max.tested pressure load [Pa]2	5400
Max. tested tensile load [Pa]2	2400

TEMPERATURE COEFFICIENT

I _{sc}	V _{oc}	P _{max}
0.045% /°C	-0.285% /°C	-0.35% /°C

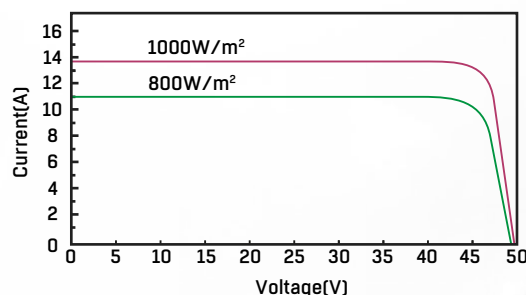
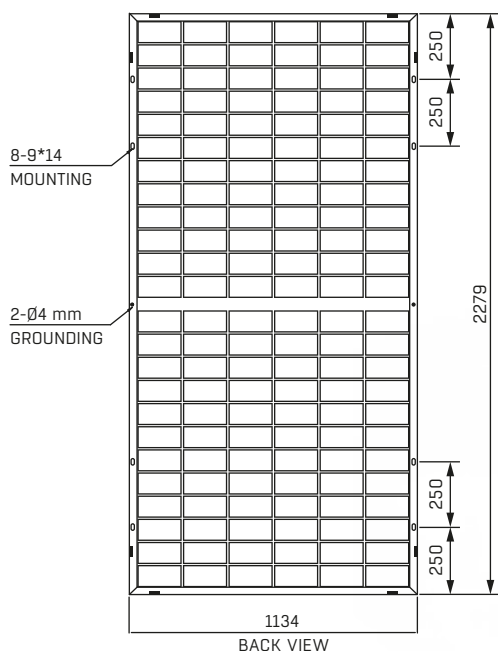
SPECIFICATIONS

Number of cells	144 (6x24) 182x91mm
Dimensions	2279 x 1134 x 35 mm
Weight	28.4 kg
Frontglass	3.2 mm high transmission, low iron, tempered glass
Frame	Stable, anodised aluminium frame, black
Junction box	Split Junction Box (IP68)
Cable	4 mm ² , +350mm,-350mm Cust.Length
Diodes	3 Diodes
Plug-in connection	MC4 Compatible
Hail test (max. hailstrom)	Ø45mm 23 m/s 83 km/h

PACKING CONFIGURATION

Container	40 HQ	Pieces Per Pallet	31
Pallets Per container	20	Pieces per Container	620

The specifications and average values can vary slightly. Relevant is the corresponding data of the individual measurement. Specifications are subject to change without notice. Measurement tolerance depending on equipment: rated power +/- 3%, other values +/- 10%. All information given in this data sheet corresponds to DIN EN 50380. A potential light-induced degradation of the power after commissioning is not considered here. Further information in the installation manuals. 1 The specific warranty conditions are given under www.swissenergy-solar.ch | 2 Horizontal mounted | 3 Tolerance L/W = +/- 3 mm. H +/- 2mm, the dimensions given in the order confirmation will be decisive | 4 Location and dimensions of holes on request



WARRANTY

25 YEARS
PRODUCT WARRANTY

30 YEARS
POWER WARRANTY

swiss solar

SWISSENERGY-SOLAR.CH

CE KONFORMITÄTSERKLÄRUNG/ CE DECLARATION OF CONFORMITY:

HERSTELLER NAME NAME OF MANUFACTURER	SWISS SOLAR AG
ADRESSE DES HERSTELLERS MANUFACTURER ADDRESS	Baarerstrasse 25, CH-6300 Zug, Schweiz Switzerland
PRODUKT PRODUCT	Photovoltaikmodul Photovoltaic Module
DATUM DER CE KENNZEICHNUNG CE DATE OF MARKING	01.01.2023
MARKE BRAND	swiss solar

MODEL TYPEN / MODEL TYPES:

Wir erklären auf eigene Verantwortung, dass das oben genannte Produkt in Konformität mit den folgenden Standards ist:
We declare under sole responsibility, that the above-referenced product is in conformity with the standards of:

MONOKRISTALLINE MODULE | MONOCRYSTALLINE MODULES

- IBEX 60-320-330M-PERC
- IBEX 72-380-390M-PERC
- IBEX 120MHC-DUO
- IBEX 120MHC-DUO-BLACK
- IBEX 120MHC-COSMOS
- IBEX 120MHC-COSMOS-BLACK,
- IBEX 144MHC-DUO
- IBEX 144MHC-COSMOS,
- IBEX 144MHC-COSMOS BLACK
- IBEX 120MHC-AEON
- IBEX 120MHC-AEON BIFACIAL
- IBEX 144MHC-AEON
- IBEX 144MHC-AEON BIFACIAL
- IBEX 156MHC-AEON BIFACIAL
- IBEX 50M-EIGER
- IBEX 50M-EIGER BLACK
- IBEX 54M-EIGER
- IBEX 54M-EIGER BLACK
- IBEX 60M-EIGER
- IBEX 60M-EIGER BLACK
- IBEX 66M-EIGER
- IBEX 66M-EIGER BLACK
- IBEX-108MHC-EIGER
- IBEX-108MHC-EIGER-BLACK
- IBEX 108BF-MHC-EIGER
- IBEX 108MHC-EIGER BIFACIAL
- IBEX-120MHC-EIGER
- IBEX-120MHC-EIGER-BLACK
- IBEX 120BF-MHC-EIGER
- IBEX 120MHC-EIGER BIFACIAL
- IBEX-132MHC-EIGER
- IBEX-132MHC-EIGER-BLACK
- IBEX 132BF-MHC-EIGER
- IBEX 132MHC-EiGER BIFACIAL
- IBEX-144MHC-EIGER
- IBEX-144MHC-EIGER-BLACK
- IBEX 144MHC-EIGER BIFACIAL
- IBEX 144BF-MHC-EIGER
- IBEX-156MHC-EIGER
- IBEX-156MHC-EIGER-BLACK
- IBEX 156MHC-EIGER BIFACIAL
- IBEX 156BF-MHC-EIGER
- IBEX108MHC TOPCON
- IBEX108MHC TOPCON-BLACK
- IBEX108BF MHC TOPCON
- IBEX120MHC TOPCON
- IBEX120MHC TOPCON-BLACK
- IBEX120BF MHC TOPCON
- IBEX132MHC TOPCON
- IBEX132MHC TOPCON-BLACK
- IBEX132BF MHC TOPCON
- IBEX144MHC TOPCON
- IBEX144MHC TOPCON-BLACK
- IBEX144BF MHC TOPCON
- IBEX156MHC TOPCON
- IBEX156MHC TOPCON-BLACK
- IBEX156BF MHC TOPCON
- IBEX60M TOPCON
- IBEX66M TOPCON

Directive 2014/30/EU
Directive 2014/35/EU

(Electro Magnetic Compability Directive)
(Low Voltage Directive)

VORSCHRIFTEN DIE PHOTOVOLTAIKMODULE BETREFFEND | STANDARDS USED FOR PHOTOVOLTAIC MODULES:

Directive 2014/30/EU (EMC Directive)

EN 61000-6-1:2007
EN 61000-6-3:2007 + A1:2011

EN 61000-3-2:2014
EN 61000-3-3:2013

Directive 2014/35/EU (Low Voltage Directive)

EN 61730-1:2007 A1:2012 + A2:2013
EN 61730-2:2007 A1:2012

Zug, 01/01/2023

Pavel Sadovskij

MOD of SSWISS GROUP AG





Product Service

CERTIFICATE

No. Z2 110727 0003 Rev. 02

Holder of Certificate: **SSWISS GROUP AG**

Baarerstrasse 25
6300 ZUG
SWITZERLAND

Certification Mark:



Product:

Crystalline Silicon Terrestrial Photovoltaic (PV) Modules
Mono-crystalline Silicon Photovoltaic Module

The product was tested on a voluntary basis and complies with the essential requirements. The certification mark shown above can be affixed on the product. It is not permitted to alter the certification mark in any way. In addition, the certification holder must not transfer the certificate to third parties. This certificate is valid until the listed date, unless it is cancelled earlier. All applicable requirements of the Testing, Certification, Validation and Verification Regulations of TÜV SÜD Group have to be complied. For details see: www.tuvsud.com/ps-cert

Test report no.: 701262213701-02

Valid until: 2028-07-19

Date, 2025-06-10

(Zhulin Zhang)

CERTIFICATE

No. Z2 110727 0003 Rev. 02

Model(s):

IBEX-72M PERC xxx, xxx=340-405, in steps of 5;
IBEX-60M PERC xxx, xxx=285-340, in steps of 5;
IBEX-54M PERC xxx, xxx=255-275, in steps of 5;
IBEX-144MHC COSMOS xxx, xxx=390-465, in steps of 5;
IBEX-120MHC COSMOS xxx, xxx=325-385, in steps of 5;
IBEX-132MHC COSMOS xxx, xxx=385-425, in steps of 5;
IBEX-156MHC EiGER xxx, xxx=550-605, in steps of 5;
IBEX-144MHC EiGER xxx, xxx=510-555, in steps of 5;
IBEX-132MHC EiGER xxx, xxx=470-510, in steps of 5;
IBEX-120MHC EiGER xxx, xxx=425-465, in steps of 5;
IBEX-108MHC EiGER xxx, xxx=390-415, in steps of 5;
IBEX-66M EiGER HP xxx, xxx=635-675, in steps of 5;
IBEX-60M EiGER HP xxx, xxx=580-610, in steps of 5;
IBEX156MHC TOPCON xxx, xxx=585-635, in steps of 5;
IBEX144MHC TOPCON xxx, xxx=540-585, in steps of 5;
IBEX132MHC TOPCON xxx, xxx=495-535, in steps of 5;
IBEX120MHC TOPCON xxx, xxx=450-485, in steps of 5;
IBEX108MHC TOPCON xxx, xxx=405-435, in steps of 5;
IBEX156BF MHC TOPCON xxx, xxx=585-630, in steps of 5;
IBEX144BF MHC TOPCON xxx, xxx=540-580, in steps of 5;
IBEX132BF MHC TOPCON xxx, xxx=495-530, in steps of 5;
IBEX120BF MHC TOPCON xxx, xxx=450-480, in steps of 5;
IBEX108BF MHC TOPCON xxx, xxx=405-435, in steps of 5;
IBEX66M TOPCON xxx, xxx=655-695, in steps of 5;
IBEX60M TOPCON xxx, xxx=595-630, in steps of 5.
xxx is standing for rated output power at STC.

Parameters:

Safety Class:	Class II
Max. System Voltage:	1500V DC
Test Laboratory:	Changzhou HuaYang Inspection and Testing Technology Co., Ltd
Construction:	Framed, with Junction box, cable and connector.
Fire Safety Class:	Class C according to UL790

Tested according to:

IEC 61215-1:2016
IEC 61215-1-1:2016
IEC 61215-2:2016
IEC 61730-1:2016
IEC 61730-2:2016



Product Service

CERTIFICATE

No. Z2 110727 0004 Rev. 01

Holder of Certificate: **SSWISS GROUP AG**

Baarerstrasse 25
6300 ZUG
SWITZERLAND

Certification Mark:



Product:

Crystalline Silicon Terrestrial Photovoltaic (PV) Modules
Mono-crystalline Silicon Photovoltaic Module

The product was tested on a voluntary basis and complies with the essential requirements. The certification mark shown above can be affixed on the product. It is not permitted to alter the certification mark in any way. In addition, the certification holder must not transfer the certificate to third parties. This certificate is valid until the listed date, unless it is cancelled earlier. All applicable requirements of the Testing, Certification, Validation and Verification Regulations of TÜV SÜD Group have to be complied. For details see: www.tuvsud.com/ps-cert

Test report no.: 701262213702-01

Valid until: 2028-08-21

Date, 2025-06-10

(Zhulin Zhang)

CERTIFICATE

No. Z2 110727 0004 Rev. 01

Model(s):

Test method 8 of salt mist:

IBEX-144MHC COSMOS xxx, xxx=390-455 in steps of 5;
IBEX-120MHC COSMOS xxx, xxx=325-380 in steps of 5;
IBEX-132MHC COSMOS xxx, xxx=385-415, in steps of 5;

Test method 6 of salt mist:

IBEX-156MHC EiGER xxx, xxx=550-605, in steps of 5;
IBEX-144MHC EiGER xxx, xxx=510-555, in steps of 5;
IBEX-132MHC EiGER xxx, xxx=470-510, in steps of 5;
IBEX-120MHC EiGER xxx, xxx=425-465, in steps of 5;
IBEX-108MHC EiGER xxx, xxx=390-415, in steps of 5;
IBEX-66M EiGER HP xxx, xxx=635-675, in steps of 5;
IBEX-60M EiGER HP xxx, xxx=580-610, in steps of 5.
xxx is standing for rated output power at STC.

Parameters:

Safety Class:	Class II
Max. System Voltage:	1500V DC or 1000V DC
Construction:	Framed, with Junction box, cable and connector.
Fire Safety Class:	Class C according to UL790
Test method of salt mist:	Test method 8 or Test method 6

Tested according to:

IEC 61215-1:2016
IEC 61215-1-1:2016
IEC 61215-2:2016
IEC 61730-1:2016
IEC 61730-2:2016
IEC 61701:2020



Product Service

CERTIFICATE

No. Z2 110727 0005 Rev. 01

Holder of Certificate: **SSWISS GROUP AG**

Baarerstrasse 25
6300 ZUG
SWITZERLAND

Certification Mark:



Product:

Crystalline Silicon Terrestrial Photovoltaic (PV) Modules
Mono-crystalline Silicon Photovoltaic Module

The product was tested on a voluntary basis and complies with the essential requirements. The certification mark shown above can be affixed on the product. It is not permitted to alter the certification mark in any way. In addition, the certification holder must not transfer the certificate to third parties. This certificate is valid until the listed date, unless it is cancelled earlier. All applicable requirements of the Testing, Certification, Validation and Verification Regulations of TÜV SÜD Group have to be complied. For details see: www.tuvsud.com/ps-cert

Test report no.: 701262213703-01

Valid until: 2028-08-21

Date, 2025-06-10

(Zhulin Zhang)

CERTIFICATE

No. Z2 110727 0005 Rev. 01

Model(s):

IBEX-144MHC COSMOS xxx, xxx=390-455 in step of 5;
IBEX-120MHC COSMOS xxx, xxx=325-380 in step of 5;
IBEX-132MHC COSMOS xxx, xxx=385-415, in step of 5;
IBEX-156MHC EiGER xxx, xxx=550-605, in step of 5;
IBEX-144MHC EiGER xxx, xxx=510-555, in step of 5;
IBEX-132MHC EiGER xxx, xxx=470-510, in step of 5;
IBEX-120MHC EiGER xxx, xxx=425-465, in step of 5;
IBEX-108MHC EiGER xxx, xxx=390-415, in step of 5;
IBEX-66M EiGER HP xxx, xxx=635-675, in step of 5;
IBEX-60M EiGER HP xxx, xxx=580-610, in step of 5.
xxx is standing for rated output power at STC.

Parameters:

Safety Class:	Class II
Max. System Voltage:	1500V DC
Construction:	Framed, with Junction box, cable and connector.
Fire Safety Class:	Class C according to UL790

Tested according to:

IEC 61215-1:2016
IEC 61215-1-1:2016
IEC 61215-2:2016
IEC 61730-1:2016
IEC 61730-2:2016
IEC 62716:2013



Product Service

CERTIFICATE

No. Z2 110727 0002 Rev. 00

Holder of Certificate: **SWISS SOLAR AG**

Bahnhofstrasse 21
6300 ZUG
SWITZERLAND

Certification Mark:



Product:

Crystalline Silicon Terrestrial Photovoltaic (PV) Modules
Mono-Crystalline Silicon Photovoltaic Module

The product was tested on a voluntary basis and complies with the essential requirements. The certification mark shown above can be affixed on the product. It is not permitted to alter the certification mark in any way. In addition, the certification holder must not transfer the certificate to third parties. This certificate is valid until the listed date, unless it is cancelled earlier. All applicable requirements of the testing and certification regulations of TÜV SÜD Group have to be complied. For details see: www.tuvsud.com/ps-cert

Test report no.: 701262106201-00

Valid until: 2025-12-17

Date, 2021-05-07

(Zhulin Zhang)

CERTIFICATE

No. Z2 110727 0002 Rev. 00

Model(s):

1000 V DC system voltage Single Glass modules:

IBEX 72-xxxM-PERC, xxx= 330 to 390 in step of 5;

IBEX 60-xxxM-PERC, xxx= 275 to 325 in step of 5;

1500 V DC system voltage Single Glass modules:

IBEX 72-xxxM-PERC HV, xxx= 330 to 390 in step of 5;

IBEX 60-xxxM-PERC HV, xxx= 275 to 325 in step of 5;

Half cell 1000 V DC system voltage Single Glass modules:

IBEX 144MHC-xxx-DUO, xxx= 370 to 415 in step of 5;

IBEX 120MHC-xxx-DUO, xxx= 305 to 345 in step of 5;

IBEX 144MHC-xxx-COSMOS, xxx= 430 to 460 in step of 5;

IBEX 120MHC-xxx-COSMOS, xxx= 360 to 380 in step of 5;

Half cell 1500 V DC system voltage Single Glass modules:

IBEX 144MHC-xxx-DUO HV, xxx= 370 to 415 in step of 5;

IBEX 120MHC-xxx-DUO HV, xxx= 305 to 345 in step of 5;

IBEX 144MHC-xxx-COSMOS HV, xxx= 430 to 460 in step of 5;

IBEX 120MHC-xxx-COSMOS HV, xxx= 360 to 380 in step of 5;

xxx is standing for rated output power at STC

Parameters:

Construction:

Framed, with Junction box,
Cable and Connectors.

Safety Class:

Class II

Maximum System Voltage:

1500 V DC or 1000 V DC

Fire Safety Class:

Class C

Severity of Salt mist test:

Severity 5

Tested according to:

IEC 61215-1:2016

IEC 61215-1-1:2016

IEC 61215-2:2016

IEC 61730-1:2016

IEC 61730-2:2016

IEC 61701:2011

Zertifikat *Certificate*

Zertifikatsnummer *Certificate No.:*

PV 50648865 0001

Berichtsnummer *Report No.:*

CN23TEY1 011

Genehmigungsinhaber *License Holder:*

SSWISS GROUP AG

Baarerstrasse 25

6300 Zug

Switzerland

Fertigungsstätte *Manufacturing Site:*

040-0002342376

Prüfzeichen *Test Mark:*

Geprüft nach *Tested according to:*

IEC 61215-1:2016

IEC 61215-1-1:2016

IEC 61215-2:2016

IEC 61730-1:2016

IEC 61730-2:2016

EN IEC 61730-1:2018

EN IEC 61730-2:2018

Geräteidentifikation
Product Identification
Produkt:

PV Module

Product:
Modell:

Modelle sind auf nächste(r) Seite(n) gelistet

Type:

Type designation(s) are listed on the next page(s)

Technische Daten:

Class II acc. to IEC 61140

Technical Data:

For other ratings, refer to the test report.

Gültig bis:

2028-08-07

Date of expiry:
Gültig ab:

2024-10-09

Valid from:
Zertifizierungsstelle:
Certification body:

Angela Yao


Ausstellungsdatum:

2024-10-09

Date of issue:

Dem Zertifikat liegt unsere Prüf- und Zertifizierungsordnung zugrunde.
Das Produkt entspricht den o.g. Anforderungen, die Herstellung wird überwacht.
This certificate is based on our Testing and Certification Regulation. The product fulfills above mentioned requirements, the production is subject to surveillance.

TÜV Rheinland LGA Products GmbH, Tillystraße 2, 90431 Nürnberg
<http://www.tuv.com/safety> E-mail: markcheck@tuv.com

Fax: +49 221 806-3935

Zertifikat *Certificate*

Zertifikatsnummer *Certificate No.:*

PV 50648865 0001

Berichtsnummer *Report No.:*

CN23TEY1 011

Produkt *Product:* PV Module

Modell *Type:*
Bezeichnung *Designation:*

Max. system voltage: up to 1500 VDC (Voc at STC):

With $\frac{1}{2}$ cut of 210 Topcon c-Si solar cell:

IBEX 66M BF MHC TOPCON xxx (xxx=695-705, in steps of 5, 132 cells)

IBEX 60M BF MHC TOPCON xxx (xxx=630-640, in steps of 5, 120 cells)

With $\frac{1}{2}$ cut of 210 mono c-Si solar cell:

IBEX 66M BF MHC EIGER xxx (xxx=635-670, in steps of 5, 132 cells)

IBEX 60M BF MHC EIGER xxx (xxx=580-610, in steps of 5, 120 cells)

With $\frac{1}{2}$ cut of 182 Topcon solar cells:

IBEX 156BF MHC TOPCON xxx (xxx=585-625, in steps of 5, 156 cells)

IBEX 144BF MHC TOPCON xxx (xxx=540-580, in steps of 5, 144 cells)

IBEX 132BF MHC TOPCON xxx (xxx=495-530, in steps of 5, 132 cells)

IBEX 120BF MHC TOPCON xxx (xxx=450-485, in steps of 5, 120 cells)

IBEX 108BF MHC TOPCON xxx (xxx=405-435, in steps of 5, 108 cells)

With $\frac{1}{2}$ cut of 182 mono c-Si cell

IBEX 144BF MHC EIGER xxx (xxx=505-565, in steps of 5, 144 cells)

IBEX 132BF MHC EIGER xxx (xxx=465-515, in steps of 5, 132 cells)

IBEX 120BF MHC EIGER xxx (xxx=425-470, in steps of 5, 120 cells)

IBEX 108BF MHC EIGER xxx (xxx=380-420, in steps of 5, 108 cells)

With $\frac{1}{2}$ cut of 166 mono c-Si cell

IBEX 144BF EIGER xxx (xxx=420-460, in steps of 5, 144 cells)

IBEX 132BF EIGER xxx (xxx=385-420, in steps of 5, 132 cells)

IBEX 120BF EIGER xxx (xxx=350-380, in steps of 5, 120 cells)

xxx represents output power in Wp

Remarks:

Fire Rating: Class A (according to UL 790)

Design Load / Safety Factors: 3600 Pa / 1.5 (downward)

1600 Pa / 1.5 (upward)

Conditions:

The product test is voluntarily according to technical regulations. Any change of the design, materials, components or processing may require the repetition of some of the qualification tests in order to retain type approval.





Product Service

CERTIFICATE

No. Z2 110727 0003 Rev. 00

Holder of Certificate: **SWISS SOLAR AG**

Bahnhofstrasse 21
6300 ZUG
SWITZERLAND

Certification Mark:



Product:

Crystalline Silicon Terrestrial Photovoltaic (PV) Modules
Mono-crystalline Silicon Photovoltaic Module

The product was tested on a voluntary basis and complies with the essential requirements. The certification mark shown above can be affixed on the product. It is not permitted to alter the certification mark in any way. In addition, the certification holder must not transfer the certificate to third parties. This certificate is valid until the listed date, unless it is cancelled earlier. All applicable requirements of the testing and certification regulations of TÜV SÜD Group have to be complied. For details see: www.tuvsud.com/ps-cert

Test report no.: 701262213701-00

Valid until: 2027-04-21

Date, 2022-08-29

(Zhulin Zhang)

CERTIFICATE

No. Z2 110727 0003 Rev. 00

Model(s):

IBEX-72M PERC xxx, xxx=340-405, in step of 5;
IBEX-60M PERC xxx, xxx=285-340, in step of 5;
IBEX-54M PERC xxx, xxx=255-275, in step of 5;
IBEX-144MHC COSMOS xxx, xxx=390-455, in step of 5;
IBEX-120MHC COSMOS xxx, xxx=325-380, in step of 5;
IBEX-132MHC COSMOS xxx, xxx=385-415, in step of 5;
IBEX-156MHC EiGER xxx, xxx=550-605, in step of 5;
IBEX-144MHC EiGER xxx, xxx=510-555, in step of 5;
IBEX-132MHC EiGER xxx, xxx=470-510, in step of 5;
IBEX-120MHC EiGER xxx, xxx=425-465, in step of 5;
IBEX-108MHC EiGER xxx, xxx=390-415, in step of 5;
IBEX-66M EiGER HP xxx, xxx=635-675, in step of 5;
IBEX-60M EiGER HP xxx, xxx=580-610, in step of 5.
xxx is standing for rated output power at STC.

Parameters:

Safety Class:	Class II
Max. System Voltage:	1500V DC
Test Laboratory:	Changzhou HuaYang Inspection and Testing Technology Co., Ltd No.8 Lanxiang Road, Wujin Economic Development Zone, Changzhou, Jiangsu, China.
Construction:	Framed, with Junction box, cable and connector.
Fire Safety Class:	Class C according to UL790

Tested according to:

IEC 61215-1:2016
IEC 61215-1-1:2016
IEC 61215-2:2016
IEC 61730-1:2016
IEC 61730-2:2016



Product Service

CERTIFICATE

No. Z2 110727 0003 Rev. 01

Holder of Certificate: **SWISS SOLAR AG**

Bahnhofstrasse 21
6300 ZUG
SWITZERLAND

Certification Mark:



Product:

Crystalline Silicon Terrestrial Photovoltaic (PV) Modules
Mono-crystalline Silicon Photovoltaic Module

The product was tested on a voluntary basis and complies with the essential requirements. The certification mark shown above can be affixed on the product. It is not permitted to alter the certification mark in any way. In addition, the certification holder must not transfer the certificate to third parties. This certificate is valid until the listed date, unless it is cancelled earlier. All applicable requirements of the testing and certification regulations of TÜV SÜD Group have to be complied. For details see: www.tuvsud.com/ps-cert

Test report no.: 701262213701-01

Valid until: 2028-07-19

Date, 2023-08-28

(Zhulin Zhang)

CERTIFICATE

No. Z2 110727 0003 Rev. 01

Model(s):

IBEX-72M PERC xxx, xxx=340-405, in step of 5;
IBEX-60M PERC xxx, xxx=285-340, in step of 5;
IBEX-54M PERC xxx, xxx=255-275, in step of 5;
IBEX-144MHC COSMOS xxx, xxx=390-465, in step of 5;
IBEX-120MHC COSMOS xxx, xxx=325-385, in step of 5;
IBEX-132MHC COSMOS xxx, xxx=385-425, in step of 5;
IBEX-156MHC EiGER xxx, xxx=550-605, in step of 5;
IBEX-144MHC EiGER xxx, xxx=510-555, in step of 5;
IBEX-132MHC EiGER xxx, xxx=470-510, in step of 5;
IBEX-120MHC EiGER xxx, xxx=425-465, in step of 5;
IBEX-108MHC EiGER xxx, xxx=390-415, in step of 5;
IBEX-66M EiGER HP xxx, xxx=635-675, in step of 5;
IBEX-60M EiGER HP xxx, xxx=580-610, in step of 5;
IBEX156MHC TOPCON xxx, xxx=585-635, in step of 5;
IBEX144MHC TOPCON xxx, xxx=540-585, in step of 5;
IBEX132MHC TOPCON xxx, xxx=495-535, in step of 5;
IBEX120MHC TOPCON xxx, xxx=450-485, in step of 5;
IBEX108MHC TOPCON xxx, xxx=405-435, in step of 5;
IBEX156BF MHC TOPCON xxx, xxx=585-630, in step of 5;
IBEX144BF MHC TOPCON xxx, xxx=540-580, in step of 5;
IBEX132BF MHC TOPCON xxx, xxx=495-530, in step of 5;
IBEX120BF MHC TOPCON xxx, xxx=450-480, in step of 5;
IBEX108BF MHC TOPCON xxx, xxx=405-435, in step of 5;
IBEX66M TOPCON xxx, xxx=655-695, in step of 5;
IBEX60M TOPCON xxx, xxx=595-630, in step of 5.
xxx is standing for rated output power at STC.

Parameters:

Safety Class:	Class II
Max. System Voltage:	1500V DC
Test Laboratory:	Changzhou HuaYang Inspection and Testing Technology Co., Ltd No.8 Lanxiang Road, Wujin Economic Development Zone, Changzhou, Jiangsu, China.
Construction:	Framed, with Junction box, cable and connector.
Fire Safety Class:	Class C according to UL790

Tested according to:

IEC 61215-1:2016
IEC 61215-1-1:2016
IEC 61215-2:2016
IEC 61730-1:2016
IEC 61730-2:2016



Product Service

CERTIFICATE

No. Z2 110727 0004 Rev. 00

Holder of Certificate: **SWISS SOLAR AG**

Bahnhofstrasse 21
6300 ZUG
SWITZERLAND

Certification Mark:



Product:

Crystalline Silicon Terrestrial Photovoltaic (PV) Modules
Mono-crystalline Silicon Photovoltaic Module

The product was tested on a voluntary basis and complies with the essential requirements. The certification mark shown above can be affixed on the product. It is not permitted to alter the certification mark in any way. In addition, the certification holder must not transfer the certificate to third parties. This certificate is valid until the listed date, unless it is cancelled earlier. All applicable requirements of the testing and certification regulations of TÜV SÜD Group have to be complied. For details see: www.tuvsud.com/ps-cert

Test report no.: 701262213702-00

Valid until: 2027-05-24

Date, 2022-08-29

(Zhulin Zhang)

CERTIFICATE

No. Z2 110727 0004 Rev. 00

Model(s):

Test method 8 of salt mist:

IBEX-144MHC COSMOS xxx, xxx=390-455 in step of 5;
IBEX-120MHC COSMOS xxx, xxx=325-380 in step of 5;
IBEX-132MHC COSMOS xxx, xxx=385-415, in step of 5;

Test method 6 of salt mist:

IBEX-156MHC EiGER xxx, xxx=550-605, in step of 5;
IBEX-144MHC EiGER xxx, xxx=510-555, in step of 5;
IBEX-132MHC EiGER xxx, xxx=470-510, in step of 5;
IBEX-120MHC EiGER xxx, xxx=425-465, in step of 5;
IBEX-108MHC EiGER xxx, xxx=390-415, in step of 5;
IBEX-66M EiGER HP xxx, xxx=635-675, in step of 5;
IBEX-60M EiGER HP xxx, xxx=580-610, in step of 5.
xxx is standing for rated output power at STC.

Parameters:

Safety Class:	Class II
Max. System Voltage:	1500V DC or 1000V DC
Construction:	Framed, with Junction box, cable and connector.
Fire Safety Class:	Class C according to UL790
Test method of salt mist:	Test method 8 or Test method 6

Tested according to:

IEC 61215-1:2016
IEC 61215-1-1:2016
IEC 61215-2:2016
IEC 61730-1:2016
IEC 61730-2:2016
IEC 61701:2020



Product Service

CERTIFICATE

No. Z2 110727 0005 Rev. 00

Holder of Certificate: **SWISS SOLAR AG**

Bahnhofstrasse 21
6300 ZUG
SWITZERLAND

Certification Mark:



Product:

Crystalline Silicon Terrestrial Photovoltaic (PV) Modules
Mono-crystalline Silicon Photovoltaic Module

The product was tested on a voluntary basis and complies with the essential requirements. The certification mark shown above can be affixed on the product. It is not permitted to alter the certification mark in any way. In addition, the certification holder must not transfer the certificate to third parties. This certificate is valid until the listed date, unless it is cancelled earlier. All applicable requirements of the testing and certification regulations of TÜV SÜD Group have to be complied. For details see: www.tuvsud.com/ps-cert

Test report no.: 701262213703-00

Valid until: 2027-05-24

Date, 2022-08-29

(Zhulin Zhang)

CERTIFICATE

No. Z2 110727 0005 Rev. 00

Model(s):

IBEX-144MHC COSMOS xxx, xxx=390-455 in step of 5;
IBEX-120MHC COSMOS xxx, xxx=325-380 in step of 5;
IBEX-132MHC COSMOS xxx, xxx=385-415, in step of 5;
IBEX-156MHC EiGER xxx, xxx=550-605, in step of 5;
IBEX-144MHC EiGER xxx, xxx=510-555, in step of 5;
IBEX-132MHC EiGER xxx, xxx=470-510, in step of 5;
IBEX-120MHC EiGER xxx, xxx=425-465, in step of 5;
IBEX-108MHC EiGER xxx, xxx=390-415, in step of 5;
IBEX-66M EiGER HP xxx, xxx=635-675, in step of 5;
IBEX-60M EiGER HP xxx, xxx=580-610, in step of 5.
xxx is standing for rated output power at STC.

Parameters:

Safety Class:	Class II
Max. System Voltage:	1500V DC
Construction:	Framed, with Junction box, cable and connector.
Fire Safety Class:	Class C according to UL790

Tested according to:

IEC 61215-1:2016
IEC 61215-1-1:2016
IEC 61215-2:2016
IEC 61730-1:2016
IEC 61730-2:2016
IEC 62716:2013