

**Verantwortlich:**

Paua Solutions GmbH,
Ackerstraße 29, 10115 Berlin GER
Geschäftsführer Bastian Faulhaber u. Marc Schuhbauer

ist Hersteller und verantwortlich für:

Konformitätserklärung / Declaration of Conformity

Produkt-Typ:	Steckerfertige-Photovoltaik Energieerzeugungsanlage, Paua Air 600
Modell:	600 Wp Plug & Play Solar Komplettsset
Komponenten:	<ul style="list-style-type: none">• 4x eArc (SMF 150M-6X05DB) / 150 Wp / IP-67 / Schutzklasse II• 1x Hoymiles HM-600 mit N/A Schutz und eingebauter RCMU / IP67 Schutzart / Schutzklasse II / Input max. 60VDC, Output max. 230VAC, 50-60Hz, 600VA, 2,55A• 1x Anschlusskabel vorkonfektioniert mit Betteri Buchse IP67, 5m / 3x2,5mm² Leitung / AC Seitig CH-Typ 13 Stecker IP 55

Konform nach ESTI-Mitteilung 07/2014 und in Übereinstimmung mit der Verordnung über elektrische Niederspannungserzeugnisse (NEV; SR 734.26) (Stand 06.03.2023).

Dazu angewandte Normen:

SMF 150M-6X05DB	DIN EN 61215-1 (VDE 0126-31-1):2017-05; EN 61215-1:2016 DIN EN 61215-1-1 (VDE 0126-31-1-1):2018-06; EN 61215-1-1:2016 DIN EN 61215-2 (VDE 0126-31-2):2019-02; EN 61215-2:2017+AC:2017+AC:2018 DIN EN IEC 61730-1 (VDE 0126-30-1):2018-10; EN IEC 61730-1:2018+AC:2018 DIN EN IEC 61730-2 (VDE 0126-30-2):2018-10; EN IEC 61730-2:2018+AC:2018
Hoymiles HM-600	VDE-ARN-N 4105: 2018-11, VDE V 0124-100:2019 & EN50549-1:2019, VFR 2019 IEC/EN 62109-1:2010/-2:2011, IEC/EN 61000-6-1:2019;EN 61000-6-2:2009; EN 61000-6-3:2007+A1:2011; EN 61000-6-4:2019; EN 61000-3-2:2019; EN 61000-3-3:2013+A1:2019, IEC/EN 62311:2008 NEMA (IP67) Gehäuse; 6000 V Stromstossschutz
Anschlusskabel vorkonfektioniert in 5m	Anschlusskabel 5m H07RN-F, EN 50525-2-21: 2011 Stecker CH Typ 13: IEC 60884-1 (Ed 3.2):2002+A1:2006+A2:2013SN 441011-1: 2019 +Corr2019 SN 441011-2-1:2021
ROHS	Gesamtes Set konform gemäss IEC EN 63000: 2018

Bastian Faulhaber,
Geschäftsführung
paua Solutions GmbH

Technische Daten

Modell	HM-600	HM-700	HM-800
Angaben zum Eingangsstrom (DC)			
Üblicherweise verwendete Modulleistung (W)	240 to 405+	280 to 470+	320 to 540+
Einschaltspannung (V)	22		
MPPT-Spannungsbereich (V)	16 - 60		
Maximale Eingangsspannung (V)	60		
Maximaler Eingangsstrom (A)	2 x 11,5	2 x 11,5	2 x 12,5
Maximaler Eingangskurzschlussstrom (A)	2 x 15		
Anzahl MPPTs	2		
Anzahl Eingänge je MPPT	1		
Angaben zum Ausgangsstrom (AC)			
Nennausgangsleistung (VA)	600	700	800
Nennausgangsstrom (A)	2,61	3,04	3,48
Nennausgangsspannung/-bereich (V) ¹	230/180-275		
Nennfrequenz/-bereich (Hz) ¹	50/45 - 55 or 60/55-65		
Leistungsfaktor (einstellbar)	> 0,99 standardmäßig 0,8 voreilend ... 0,8 nacheilend		
Klirrfaktor	< 3 %		
Maximale Anzahl Module pro Strang ²	8	7	6
Wirkungsgrad			
CEC-Spitzenwirkungsgrad	96,70 %		
CEC-gewichteter Wirkungsgrad	96,50 %		
MPPT-Nennwirkungsgrad	99,80 %		
Nachtverbrauch (mW)	< 50		
Mechanische Daten			
Umgebungstemperaturbereich (°C)	-40 bis +65		
Abmessungen (B x H x T mm)	250 x 170 x 28		
Gewicht (kg)	3,0		
Schutzart	NEMA Außen 6 (IP67)		
Kühlung	Natürliche Konvektion (Keine Lüfter)		
Merkmale			
Kommunikation	2,4 GHz eigene HF (Nordic)		
Überwachung	S-Miles Cloud (Hoymiles-Überwachungsplattform) ³		
Art der Isolierung	Galvanisch isolierter HF-Transformator		
Konformität	VDE-AR-N 4105: 2018, EN 50549-1: 2019, IEC/EN 62109-1/-2, IEC/EN 61000-6-1/-2/-3/-4, IEC/EN 61000-3-2/-3		

*1 Nennspannung/-frequenzbereich können je nach örtlichen Anforderungen variieren.

*2 Die genaue Anzahl der Mikro-Wechselrichter pro Strang entnehmen Sie bitte den örtlichen Anforderungen.

*3 Hoymiles-Überwachungssystem

eArc

SMF150M-6X05DB

150 Watt

30 Cell Monocrystalline Module



Ultra-light: Glass free module weighs 2.6 kg, 70% lighter than conventional glass modules.



Aesthetic: Seamless integration with underlying installation surface.



Durable: eArc is the first glassless module to pass the same durability tests as conventional glass modules, including IEC 61215:2016, IEC61730:2016 and UL1703 (USA). eArc has also passed PID, salt mist and ammonia corrosion tests.

POWER OUTPUT RANGE	150 W
POWER TOLERANCE	0-5 W

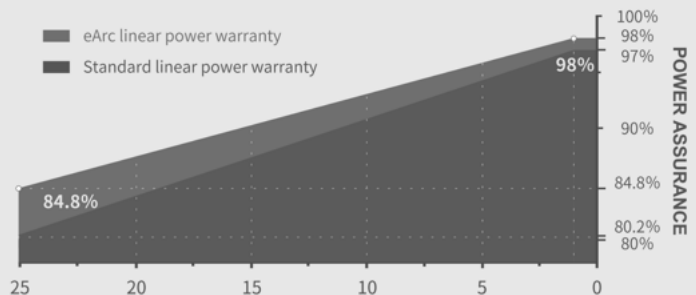
12 Year Product Warranty

25 Year Linear Power Warranty



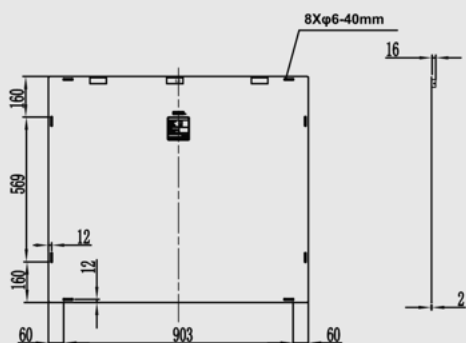
LINEAR PERFORMANCE WARRANTY

CAUTION: Read installation manual before using the product.
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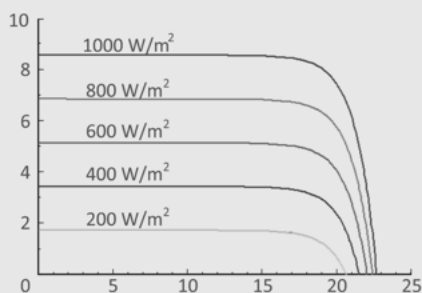


Irrtümer und technische Änderungen vorbehalten.

DIMENSIONS

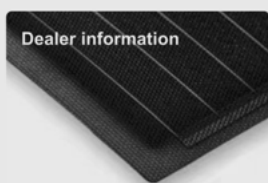


I-V CURVE (150)



TEMPERATURE CHARACTERISTICS

Nominal Module Operating Temperature(NMOT)	41±2 C
Temperature Coefficient of P_{max}	-0.38 %/C
Temperature Coefficient of V_{oc}	-0.28 %/C
Temperature Coefficient of I_{sc}	0.020 %/C



SMFDB IEC EN 2023A

ELECTRICAL CHARACTERISTICS

STC	SMF150M-6X05DB
Maximum Power (P_{max})	150
Maximum Power Voltage (V_{mp})	18.7
Maximum Power Current (I_{mp})	8.14
Open-circuit Voltage (V_{oc})	22.7
Short-circuit Current (I_{sc})	8.54
Module Efficiency (%)	17.6
Operating Temperature	-40 °C to 85 °C
Maximum System Voltage	1000 V DC (IEC)
Maximum Series Fuse Rating	20 A
Application Class	Class A
Power Tolerance	0/+5 W

STC: Irradiance 1000W/m², Cell temperature 25 C, AM=1.5.

Tolerances of P_{max} , V_{oc} and I_{sc} are within ±5%

NMOT	SMF150M-6X05DB
Maximum Power (P_{max})	122.7
Maximum Power Voltage (V_{mp})	18.9
Maximum Power Current (I_{mp})	6.49
Open-circuit Voltage (V_{oc})	22.8
Short-circuit Current (I_{sc})	6.81

NMOT: Irradiance 800W/m², Ambient temperature 20 C, AM=1.5, Wind speed 1 m/s.

MECHANICAL CHARACTERISTICS

Solar Cell	Monocrystalline silicon (158.75mm)
No. of Cells	30 (6×5)
Module Dimensions	1023×889×2 mm
Weight	2.6kg
Backsheet	Black
Frame	Frameless
J-box	IP 68 rated
Output Cables	Photovoltaic technology cable 4.0 mm 2, (+)450 mm / (-)450 mm
Connector	MC4 compatible

PACKAGING CONFIGURATION

	20' GP	40' HC
Module per pallet	66+86	66+86
Pieces per container	1216	2736

Irrtümer und technische Änderungen vorbehalten.

EU Declaration of Conformity

Issuer's name and address: Sunman (Zhenjiang) Company Limited
No.1 Mingzhu South Road
Youfang Town, Yangzhong City
212218 Zhenjiang
Jiangsu
China

Product: Crystalline silicon terrestrial photovoltaic modules

Type designation:

SMDXXXM-6X12DW	SMDXXXM-6X10DW	SMDXXXM-4X12DW	SMDXXXM-4X09DW	SMBXXXM-6X12DW
SMBXXXM-6X10DW	SMBXXXM-4X12DW	SMBXXXM-4X09DW	SMBXXXM-6X12UW	SMBXXXM-6X10UW
SMBXXXM-4X12UW	SMBXXXM-4X09UW	SMDXXXM-6X12UW	SMDXXXM-6X10UW	SMDXXXM-4X12UW
SMDXXXM-4X09UW	SMFXXXF-6X24DW	SMFXXXF-6X24DB	SMFXXXF-6X20DW	SMFXXXF-6X20DB
SMFXXXF-4X24DW	SMFXXXF-4X24DB	SMFXXXF-4X18DW	SMFXXXF-4X18DB	SMFXXXF-6X24UW
SMFXXXF-6X24UB	SMFXXXF-6X20UW	SMFXXXF-6X20UB	SMFXXXF-4X24UW	SMFXXXF-4X24UB
SMFXXXF-4X18UW	SMFXXXF-4X18UB	SMFXXXM-6X12DW	SMFXXXM-6X10DW	SMFXXXM-4X12DW
SMFXXXM-4X09DW	SMFXXXM-6X12UW	SMFXXXM-6X10UW	SMFXXXM-4X12UW	SMFXXXM-4X09UW
SMFXXXM-5X12UW	SMDXXXF-6X24DW	SMDXXXF-6X24DB	SMDXXXF-6X20DW	SMDXXXF-6X20DB
SMDXXXF-4X24DW	SMDXXXF-4X24DB	SMDXXXF-4X18DW	SMDXXXF-4X18DB	SMDXXXF-6X24UW
SMDXXXF-6X24UB	SMDXXXF-6X20UW	SMDXXXF-6X20UB	SMDXXXF-4X24UW	SMDXXXF-4X24UB
SMDXXXF-4X18UW	SMDXXXF-4X18UB	SMBXXXF-6X24DW	SMBXXXF-6X24DB	SMBXXXF-6X20DW
SMBXXXF-6X20DB	SMBXXXF-4X24DW	SMBXXXF-4X24DB	SMBXXXF-4X18DW	SMBXXXF-4X18DB
SMFXXXF-12X12UW	SMFXXXF-12X12UB	SMFXXXF-12X09UW	SMFXXXF-12X09UB	SMFXXXF-12X08UW
SMFXXXF-12X08UB	SMFXXXF-12X04UW	SMFXXXF-12X04UB	SMFXXXF-12X12DW	SMFXXXF-12X12DB
SMFXXXF-12X08DW	SMFXXXF-12X08DB	SMFXXXF-12X04DW	SMFXXXF-12X04DB	SMFXXXM-6X05DW-e
SMFXXXM-6X05DB-e	SMFXXXM-5X12DW-e	SMFXXXM-5X12DB-e	SMFXXXM-5X07DW-e	SMFXXXM-5X07DB-e
SMFXXXL-12X11UW	SMFXXXL-12X10UW	SMFXXXL-12X09UW	SMFXXXL-10X11UW	SMFXXXL-10X09UW
SMFXXXL-10X08UW	SMFXXXL-8X11UW	SMFXXXL-8X10UW	SMFXXXL-12X07UW-e	SMFXXXL-12X11DW
SMFXXXL-12X10DW	SMFXXXL-12X09DW	SMFXXXL-10X11DW	SMFXXXL-10X09DW	SMFXXXL-10X08DW
SMFXXXL-8X11DW	SMFXXXL-8X10DW	SMFXXXL-12X07DW-e	SMFXXXL-10X07DW-e	SMFXXXL-4X11DW-e
SMFXXXL-4X10DW-e	SMFXXXJ-12X12UW	SMFXXXJ-12X11UW	SMFXXXJ-12X10UW	SMFXXXJ-10X12UW
SMFXXXJ-12X08UW-e	SMFXXXJ-12X12DW	SMFXXXJ-12X11DW	SMFXXXJ-12X10DW	SMFXXXJ-10X12DW
SMFXXXJ-12X08DW-e	SMFXXXJ-10X09DW-e	SMFXXXJ-6X09DW-e	SMFXXXJ-6X08DW-e	SMFXXXJ-6X07DW-e
SMFXXXJ-4X12DW-e	SMFXXXJ-4X11DW-e	SMFXXXJ-6X24UW	SMFXXXJ-6X20UW	SMFXXXJ-5X24UW
SMFXXXJ-6X24DW	SMFXXXJ-6X20DW	SMFXXXJ-5X24DW	SMFXXXF-6X24UW	SMFXXXF-6X24DW
SMFXXXF-6X09DW-e	SMFXXXF-12X12UW	SMFXXXF-12X12DW		

The object of the declaration described above is in conformity with the relevant Union harmonisation legislation:

2014/35/EU

"Directive of the European Parliament and of the Council on the harmonisation of the laws of the Member States relating to the making available on the market of electrical equipment designed for use within certain voltage limits".

The technical documentation and full compliance with the standards listed below proves the conformity of the product with the requirements of the above-mentioned EC Directive:

DIN EN 61215-1(VDE 0126-31-1):2017-05;EN 61215-1:2016
DIN EN 61215-1-1(VDE 0126-31-1-1):2018-06;EN 61215-1-1:2016
DIN EN 61215-2(VDE 0126-31-2):2019-02;EN 61215-2:2017+AC:2017+AC:2018
DIN EN IEC 61730-1(VDE 0126-30-1):2018-10;EN IEC 61730-1:2018+AC:2018
DIN EN IEC 61730-2(VDE 0126-30-2):2018-10;EN IEC 61730-2:2018+AC:2018
IEC61215-1:2016
IEC61215-1-1:2016
IEC61215-2:2016
IEC61730-1:2016
IEC61730-2:2016

Remark: The VDE Testing and Certification Institute, Merianstr. 28, 63069 Offenbach (Germany), has tested and certified the product according to these standards.

Certificate No. 40050735
File Reference 5026242-3972-0001 / 305546

This declaration is issued under the sole responsibility of the manufacturer.

2023.4.7



(Place, Date)

(name, function) (signature)



Schweizerische Eidgenossenschaft
Confédération suisse
Confederazione Svizzera
Confederaziun svizra

Swiss Confederation

Federal Inspectorate for Heavy Current Installations ESTI
Market Surveillance/Safety Mark

Zhejiang Jinting Nuclear Cable Co. Ltd.
5# Gongji Road Industrial Park
Simen Town
315472 Yuyao, Zhejiang
CHINA

Client no.
154714

Your reference
Jacky Liu

Our reference
Peter Wylene mann

Date
24.05.2022

Authorization

Number: **22.0321**
valid until: **31.12.2024**

Marking:



Company Logo

Based on the documents contained in file **22-BS-0168**, the Federal Inspectorate for Heavy Current Installations grants the firm named above the right to put the equipment listed below on the market marked with the Swiss safety mark in accordance with the NEV.

Equipment: **Plug, non-rewirable**

Tradename: **Zhejiang Jinting**

Type designation **Nominal values**

R3-10F 250V~ 10A L+N+PE
CH-type 13, standard sheet 5513-2
with non-rewirable cords:
H05VV-F 3G 0.75mm² [Zhejiang Jinting]
H05VV-F 3G 1.00mm² [Zhejiang Jinting]
H05VV-F 3G 1.50mm² [Zhejiang Jinting]
H05RN-F 3G 0.75mm² [Zhejiang Jinting]
H05RN-F 3G 1.00mm² [Zhejiang Jinting]
H07RN-F 3G 1.00mm² [Zhejiang Jinting]
H07RN-F 3G 1.50mm² [Zhejiang Jinting]
H07RN8-F 3G 1.00mm² [Zhejiang Jinting]
H07RN8-F 3G 1.50mm² [Zhejiang Jinting]

Federal Inspectorate for Heavy Current Installations ESTI
Luppenstrasse 1, CH-8320 Fehraltorf
T +41 58 595 18 18
mub.bs.info@esti.ch
www.esti.admin.ch





Authorization Number: **22.0321**

Protection class: for class I equipment

Protection degree: IP55

Basis: Test Report / DEKRA / 6127894.51 / 19.05.2022

Remark: A further extension of the authorization is possible with an updated test certificate

This Authorization replace the authorization with the same number from the 07.04.2022

Test standards: IEC 60884-1(ed.3):02+A1:06+A2:13
SN 441011-1:19+corr1:19
SN 441011-2-1:19+corr1:19

Federal Inspectorate for Heavy Current Installations ESTI

Peter Fluri
Head of Market Surveillance/Safety Mark

