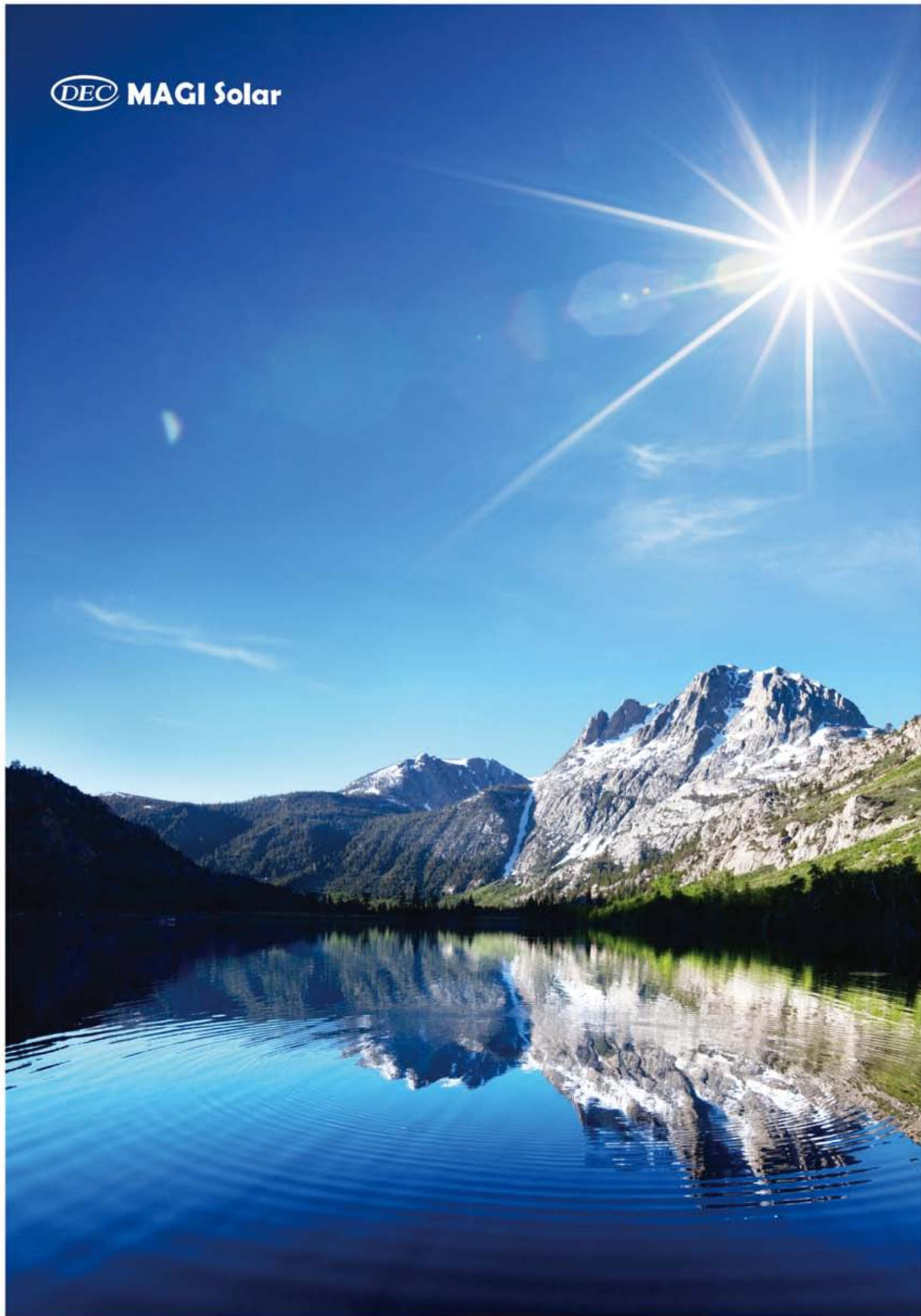




Solar Module

Dongfang Electric (Yixing) MAGI Solar Power Technology Co.,Ltd

DEC **MAGI Solar**





PURSUIT OF THE **SUN** !
LIGHTS UP THE **FUTURE** !

MODULE KEY FEATURES

- High efficiency solar cells embedded
- High performance under low light conditions (cloudy days, mornings and evenings)
- Module can bear snow loads up to 5400Pa and wind loads up to 2400Pa
- Best components according to the top quality standards
- Superior aesthetic design

GUARANTEE

- 10-year limited product guarantee
- 10-year power guarantee on min.90% of the given nominal power output
- 25-year power guarantee on min.80% of the given nominal power output



Clean Energy Council

CATALOG

Mono-Crystalline Silicon Module

MGSM245~265-60

MGSM295~315-72

Poly-crystalline Silicon Module

MGSP235~245-60

MGSP280~290-72

MGSMML245~265-60(MONO-LIKE)

MGSMML295~315-72(MONO-LIKE)





ABOUT US

DEC GROUP

Dongfang Electric Corporation (DEC), with its headquarter in Chengdu, the capital city of Sichuan Province, is one of the largest backbone enterprise groups under the direct administration of Chinese Central Government. It is appointed by the Central Government as one of the most important state-owned enterprise groups concerning the national economy of the country.

DEC not only achieved the annual production of power generating equipment for more than 37,000MW consisting of hydro, thermal, nuclear, wind, combine-cycle generating unit and solar power, presently enjoys one-third domestic market share in thermal power and two-fifths in hydro power, but also has been diversifying its manufacturing industries to various fields such as desulphurization and denitrification, heavy-duty machinery, power transmission, hi-voltage large power frequency converter, solar grade silicon, industrial control devices, chemical and maritime equipment and so on. Being an active international Contractor, DEC has been selected as one of The Top 225 International Contractors in the world for many years by the well-reputed Engineering News Record of USA since 1996.



DEC MAGI Solar

Dongfang Electric (Yixing) MAGI Solar Power Technology Co.,Ltd (DEC MAGI Solar) is a Sino-German joint venture held by Dongfang Electric Corporation. DEC MAGI Solar specializes in manufacturing, R&D, and technical service of high efficiency solar cells and modules.

DEC MAGI Solar was founded in Sep. 2008 and started its production in Sep. 2009. The first solar cell production line of 60MW capacity began mass production in Jan. 2010. By the end of 2010, the total capacity of DEC MAGI Solar reached to 180MW, and since the end of 2011 the total capacity has achieved 480MW.

With the adoption of the world top class management system and the most advanced production technology for high quality & efficiency solar cells and modules, DEC MAGI Solar has won favorable comments from customers and peers of PV industry.

DEC MAGI Solar dedicates itself to producing high-quality solar cells and modules with the lowest production costs, and providing the green and cost-effective energy for the whole world.

Product

DEC MAGI Solar is a brand new enterprise full of vitality and vigor, which has already achieved cell production capacity of 480MW and reached module production scale of 45MW. In two years, DEC MAGI Solar's module production capacity will be up to 200MW.

DEC MAGI Solar is characterized by its rapid development and unique advantages. Its average mass production efficiency for solar cells is above 18.3%, and the top high efficiency solar cell project "Athena 1" enables an average efficiency enhancement for mass production of 156 mono-crystalline solar cells up to 18.6%; laboratory conversion efficiency of "Athena 2" has surpassed 19%.

Quality

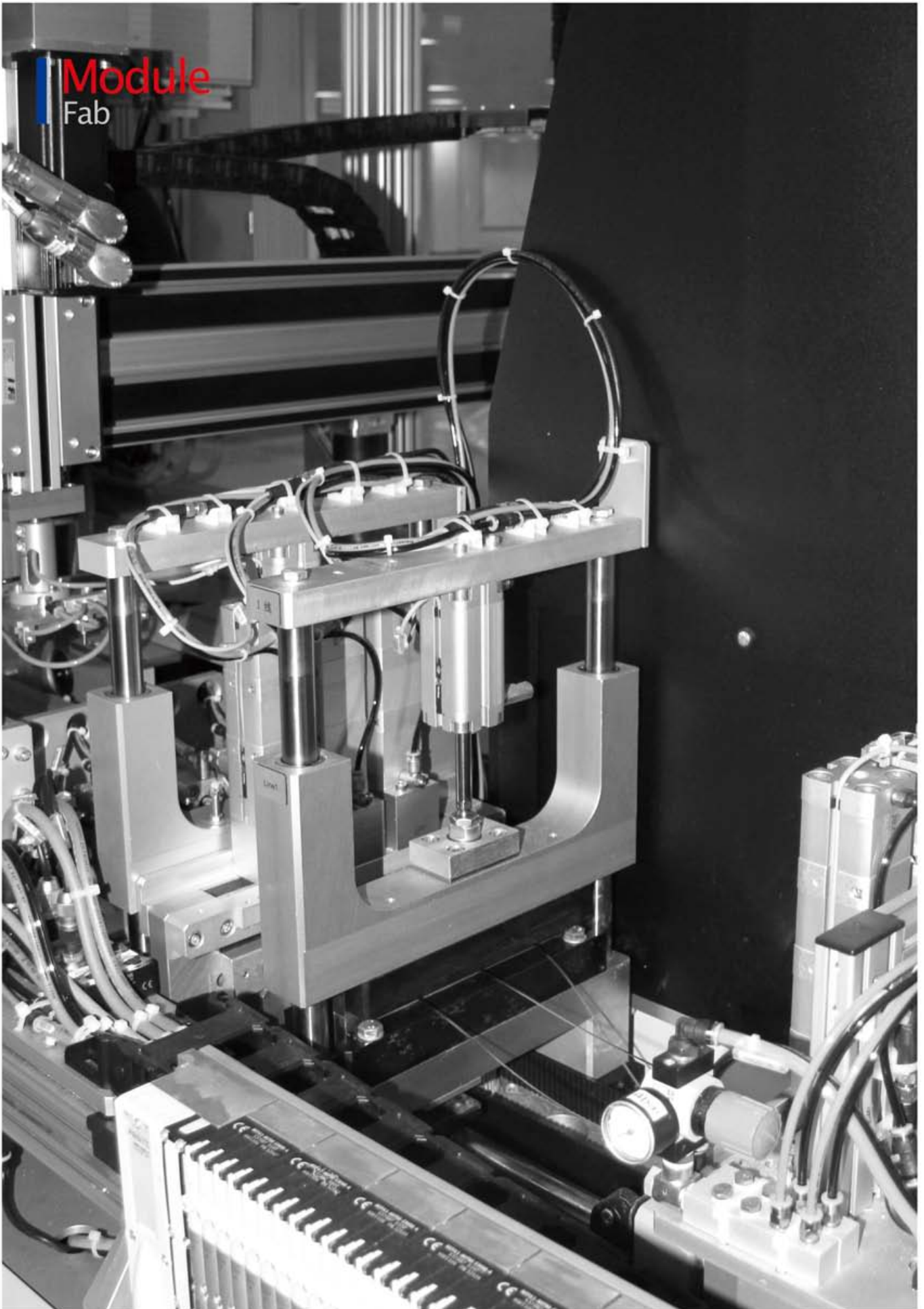
With high technology production equipment imported from Germany, DEC MAGI Solar enjoys a world class process technology, high-level of automation and numerical control.

DEC MAGI Solar has signed a long-term technical service agreement with German Solar technical consultancy company, which ensures constant upgrade and improvement of production lines as well as guarantees the leadership in terms of solar cell efficiency and quality.

Future

As a technological front runner in manufacturing crystalline silicon solar cell in China, DEC MAGI Solar will strive to remain a competitive supplier for solar cell and module in the whole world. In the long run, our business will be extended to overall market from downstream to upstream and keep the leading position as an international integrated supplier of solar cell material, technology, products and projects.

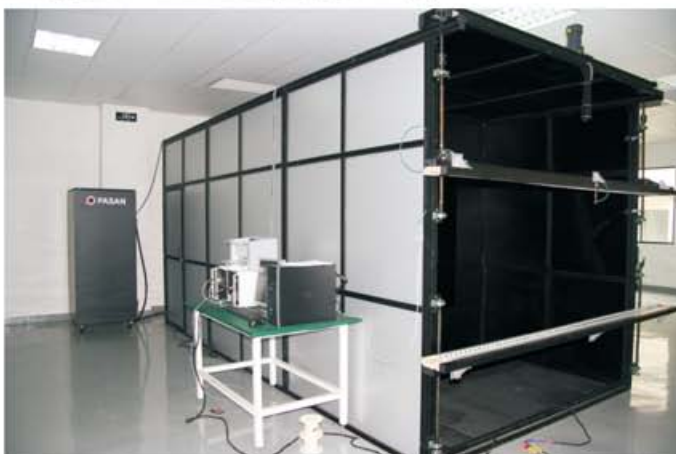
Module
Fab



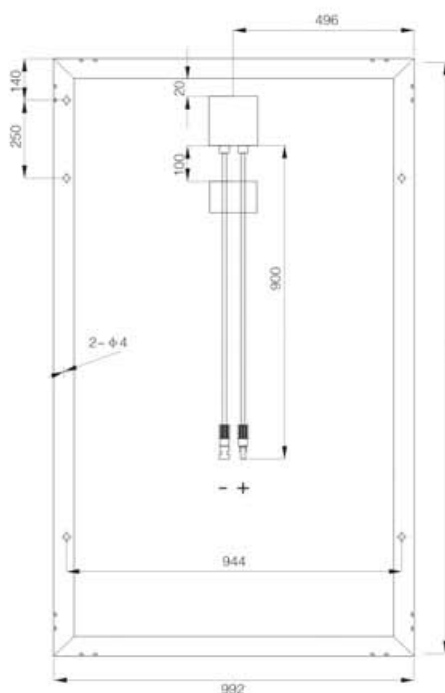
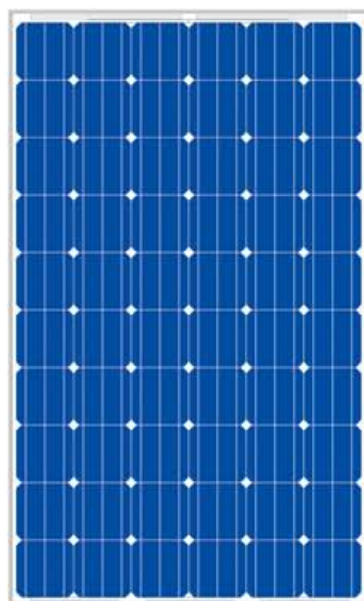


INNOVATION/COMMITMENT/QUALITY

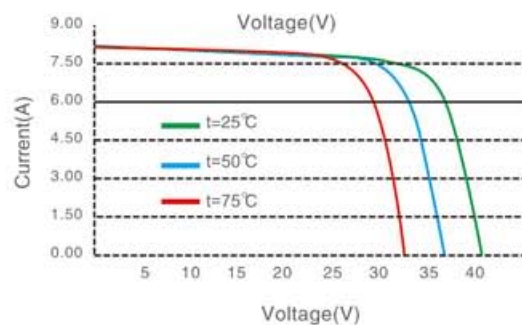
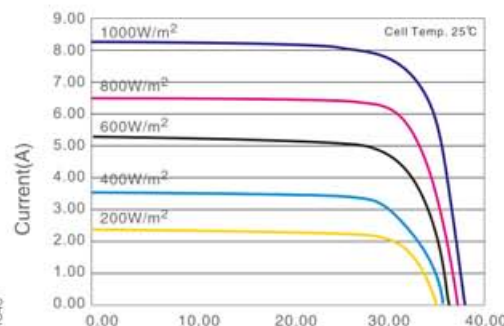
State-of-the-art facilities and industry-leading technology ensures continuous innovations
Commitment to the top quality products for customers



MGSM245~265-60



ELECTRICAL CHARACTERISTICS



MECHANICAL PARAMETERS

Cell type (mm)	156*156(mono)
Weight (kg)	20 Kg
Dimensions (L*W*H)(mm)	1640*992*50
Cable Length (mm)	900
No.of cells and connections	60 (10*6)
No.of diodes	6
Packing configuration	
Pcs/pallet	20
Pcs/20ft	240
Pcs/40ft	560

WORKING CONDITIONS

maximum System Voltage	DC 1000V
Operating Temp.	-40 to 85°C
maximum Series Fuse	15A
Max Wind Load / Max Snow Load	2400/5400Pa
NOCT	45±2°C
Application Class	Class A
Insulation Resistance	50MΩ

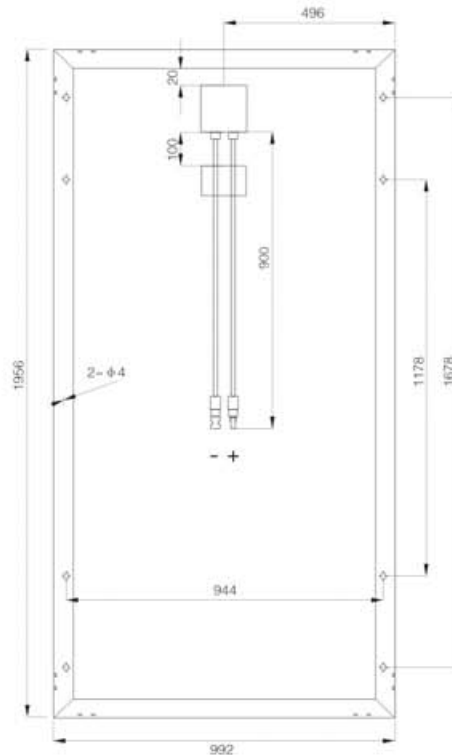
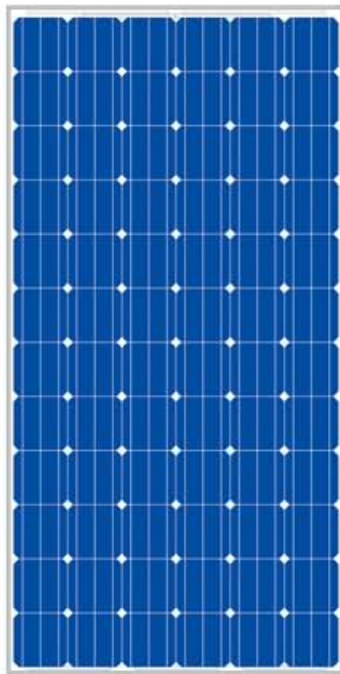
ELECTRICAL PARAMETERS

MODULE Type	MGSM265-60	MGSM260-60	MGSM255-60	MGSM250-60	MGSM245-60
Rated Maximum Power at STC (W)	265	260	255	250	245
Open Circuit Voltage (Voc/V)	38.49	38.33	38.22	38	37.78
Maximum Power Voltage (Vmp/V)	31.55	31.35	31.17	31.49	31.35
Short Circuit Current (Isc/A)	8.71	8.68	8.65	8.4	8.34
Maximum Power Current (Imp/A)	8.40	8.29	8.18	7.94	7.82
Module Efficiency (%)	16.27	15.97	15.66	15.36	15.05
Solar Cell Efficiency (%)	18.9	18.7	18.5	18.3	18.2
Power Tolerance (%)	0~+3	0~+3	0~+3	0~+3	0~+3
Temperature Coefficient of Isc	0.035	0.035	0.035	0.035	0.035
Temperature Coefficient of Voc	-0.33	-0.33	-0.33	-0.33	-0.33
Temperature Coefficient of Pmax	-0.45	-0.45	-0.45	-0.45	-0.45

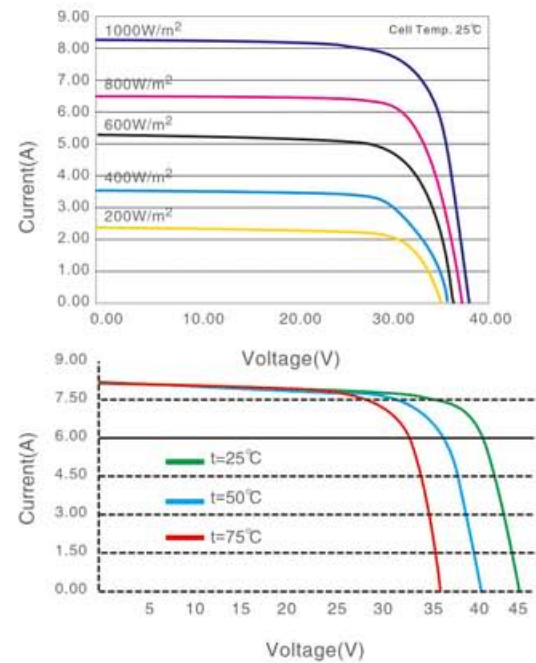
10-year product guarantee
 10-year power guarantee on min.90% of the given nominal power output
 25-year power guarantee on min.80% of the given nominal power output
 Best components according to German quality standards



MGSM295~315-72



ELECTRICAL CHARACTERISTICS



MECHANICAL PARAMETERS

Cell type (mm)	156*156(mono)
Weight (kg)	23 Kg
Dimensions (L*W*H)(mm)	1956*992*50
Cable Length (mm)	900
No.of cells and connections	72 (12*6)
No.of diodes	6
Packing configuration	
Pcs/pallet	20
Pcs/20ft	180
Pcs/40ft	480

WORKING CONDITIONS

maximum System Voltage	DC 1000V
Operating Temp.	-40 to 85°C
maximum Series Fuse	15A
Max Wind Load / Max Snow Load	2400/5400Pa
NOCT	45±2°C
Application Class	Class A
Insulation Resistance	50MΩ

ELECTRICAL PARAMETERS

MODULE Type	MGSM315-72	MGSM310-72	MGSM305-72	MGSM300-72	MGSM295-72
Rated Maximum Power at STC (W)	315	310	305	300	295
Open Circuit Voltage (Voc/V)	46.79	46.52	46.39	45.29	45.21
Maximum Power Voltage (Vmp/V)	38.29	37.89	37.50	37.88	37.65
Short Circuit Current (Isc/A)	8.90	8.80	8.73	8.4	8.34
Maximum Power Current (Imp/A)	8.22	8.18	8.13	7.92	7.84
Module Efficiency (%)	16.07	15.82	15.56	15.36	15.05
Solar Cell Efficiency (%)	19.13	18.86	18.6	18.3	18.2
Power Tolerance (%)	0~+3	0~+3	0~+3	0~+3	0~+3
Temperature Coefficient of Isc	0.035	0.035	0.035	0.035	0.035
Temperature Coefficient of Voc	-0.33	-0.33	-0.33	-0.33	-0.33
Temperature Coefficient of Pmax	-0.45	-0.45	-0.45	-0.45	-0.45

10-year product guarantee
 10-year power guarantee on min.90% of the given nominal power output
 25-year power guarantee on min.80% of the given nominal power output
 Best components according to German quality standards

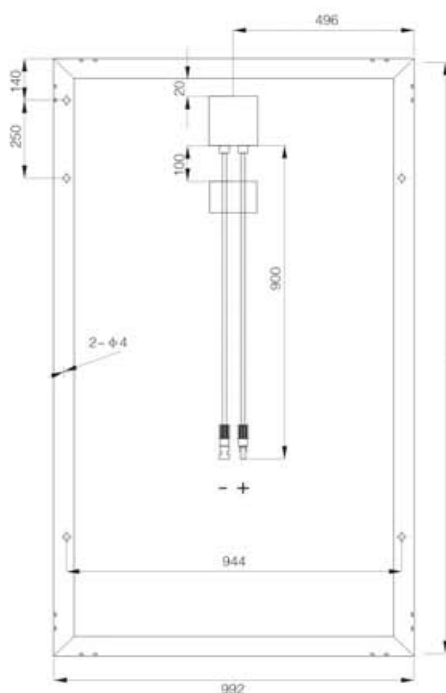
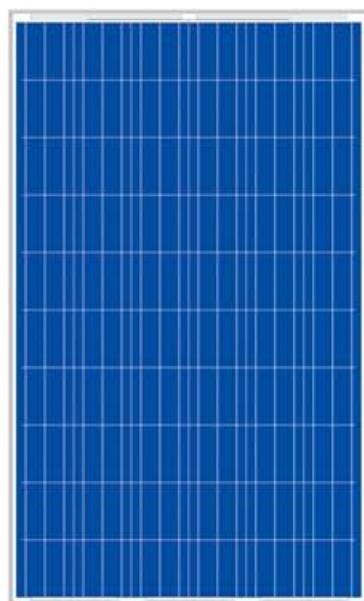




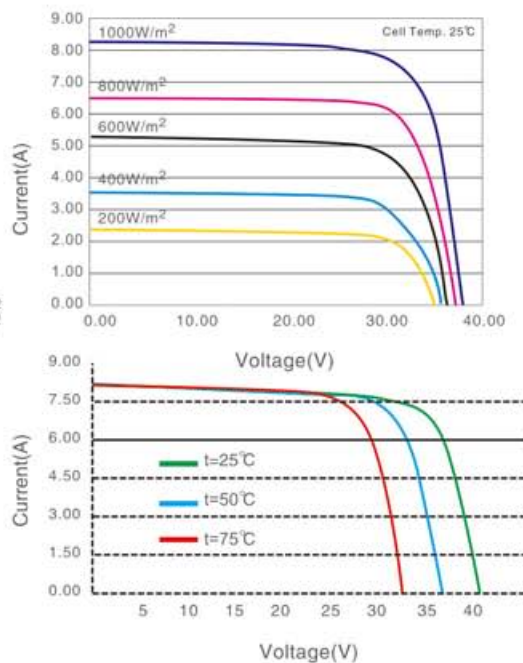
DEC MAGI Solar



MGSP235~245-60



ELECTRICAL CHARACTERISTICS



MECHANICAL PARAMETERS

Cell type (mm)	156*156(poly)
Weight (kg)	20 Kg
Dimensions (L*W*H)(mm)	1640*992*50
Cable Length (mm)	900
No.of cells and connections	60 (10*6)
No.of diodes	6
Packing configuration	
Pcs/pallet	20
Pcs/20ft	240
Pcs/40ft	560

WORKING CONDITIONS

maximum System Voltage	DC 1000V
Operating Temp.	-40 to 85°C
maximum Series Fuse	15A
Max Wind Load / Max Snow Load	2400/5400Pa
NOCT	45±2°C
Application Class	Class A
Insulation Resistance	50MΩ

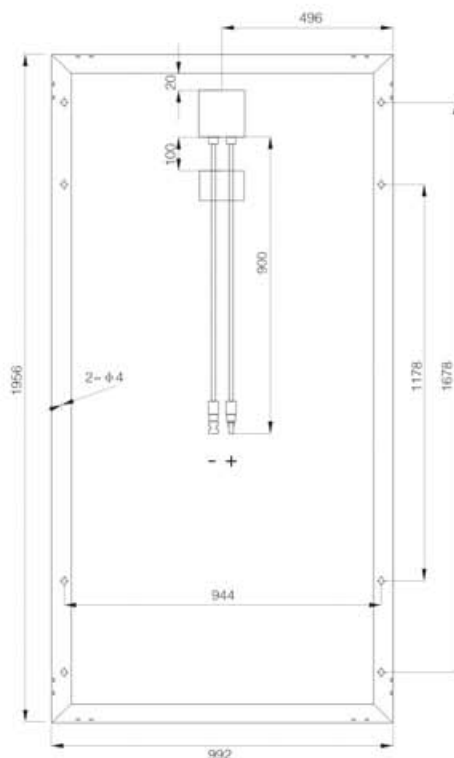
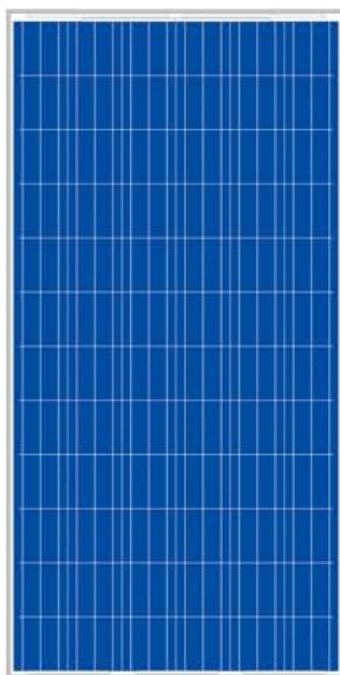
ELECTRICAL PARAMETERS

MODULE Type	MGSP245-60	MGSP240-60	MGSP235-60
Rated Maximum Power at STC (W)	245	240	235
Open Circuit Voltage (Voc/V)	37.87	37.51	37.6
Maximum Power Voltage (Vmp/V)	29.73	29.72	29.8
Short Circuit Current (Isc/A)	8.56	8.48	8.29
Maximum Power Current (Imp/A)	8.24	8.08	7.89
Module Efficiency (%)	14.98	14.68	14.44
Solar Cell Efficiency (%)	17.5	17.2	17.0
Power Tolerance (%)	0~+3	0~+3	0~+3
Temperature Coefficient of Isc	0.039	0.039	0.039
Temperature Coefficient of Voc	-0.31	-0.31	-0.31
Temperature Coefficient of Pmax	-0.41	-0.41	-0.41

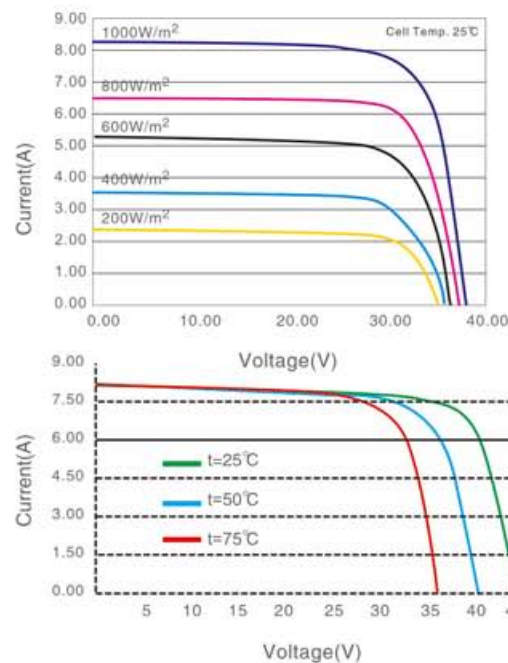
10-year product guarantee
 10-year power guarantee on min.90% of the given nominal power output
 25-year power guarantee on min.80% of the given nominal power output
 Best components according to German quality standards



MGSP280~290-72



ELECTRICAL CHARACTERISTICS



MECHANICAL PARAMETERS

Cell type (mm)	156*156(poly)
Weight (kg)	23 Kg
Dimensions (L*W*H)(mm)	1956*992*50
Cable Length (mm)	900
No.of cells and connections	72 (12*6)
No.of diodes	6
Packing configuration	
Pcs/pallet	20
Pcs/20ft	180
Pcs/40ft	480

WORKING CONDITIONS

maximum System Voltage	DC 1000V
Operating Temp.	-40 to 85°C
maximum Series Fuse	15A
Max Wind Load / Max Snow Load	2400/5400Pa
NOCT	45±2°C
Application Class	Class A
Insulation Resistance	50MΩ

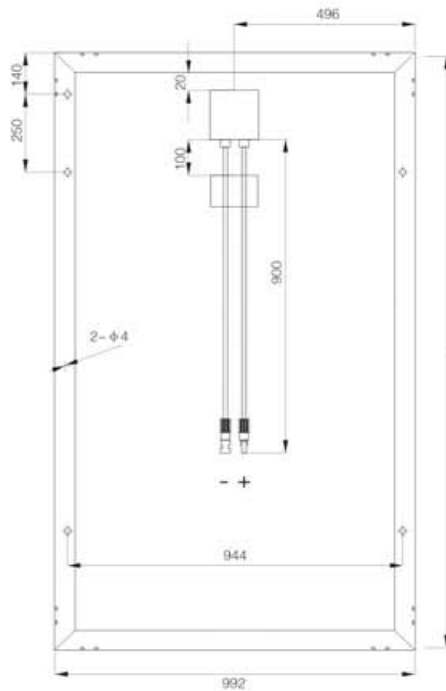
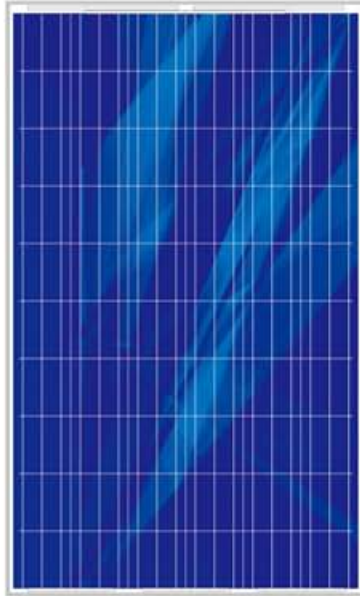
ELECTRICAL PARAMETERS

MODULE Type	MGSP290-72	MGSP285-72	MGSP280-72
Rated Maximum Power at STC (W)	290	285	280
Open Circuit Voltage (Voc/V)	44.41	44.4	40.7
Maximum Power Voltage (Vmp/V)	37.46	36.76	32.8
Short Circuit Current (Isc/A)	8.43	8.33	6.75
Maximum Power Current (Imp/A)	7.74	7.65	6.22
Module Efficiency (%)	14.89	14.63	14.37
Solar Cell Efficiency (%)	17.5	17.2	17.0
Power Tolerance (%)	0~+3	0~+3	0~+3
Temperature Coefficient of Isc	0.039	0.039	0.039
Temperature Coefficient of Voc	-0.31	-0.31	-0.31
Temperature Coefficient of Pmax	-0.41	-0.41	-0.41

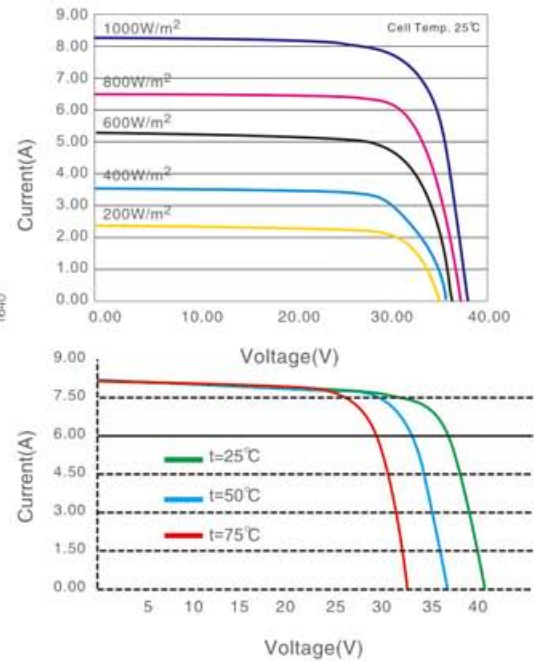
10-year product guarantee
 10-year power guarantee on min.90% of the given nominal power output
 25-year power guarantee on min.80% of the given nominal power output
 Best components according to German quality standards



MG SML245~265-60 (MONO-LIKE)



ELECTRICAL CHARACTERISTICS



MECHANICAL PARAMETERS

Cell type (mm)	156*156(mono-like)
Weight (kg)	20 Kg
Dimensions (L*W*H)(mm)	1640*992*50
Cable Length (mm)	900
No.of cells and connections	60 (10*6)
No.of diodes	6
Packing configuration	
Pcs/pallet	20
Pcs/20ft	240
Pcs/40ft	560

WORKING CONDITIONS

maximum System Voltage	DC 1000V
Operating Temp.	-40 to 85°C
maximum Series Fuse	15A
Max Wind Load / Max Snow Load	2400/5400Pa
NOCT	45±2°C
Application Class	Class A
Insulation Resistance	50MΩ

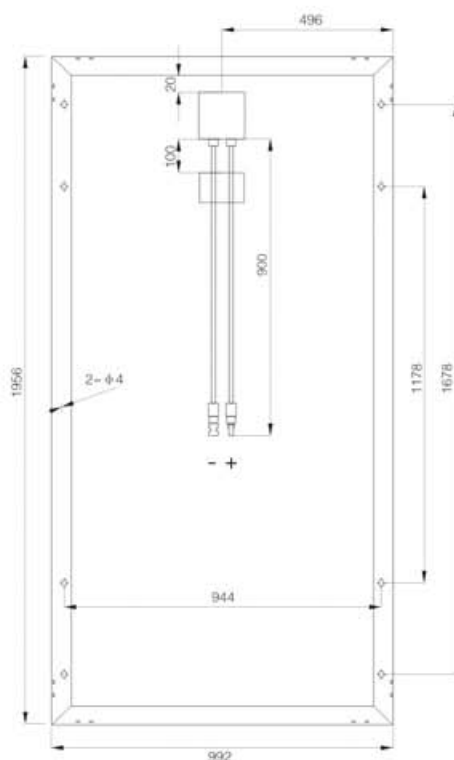
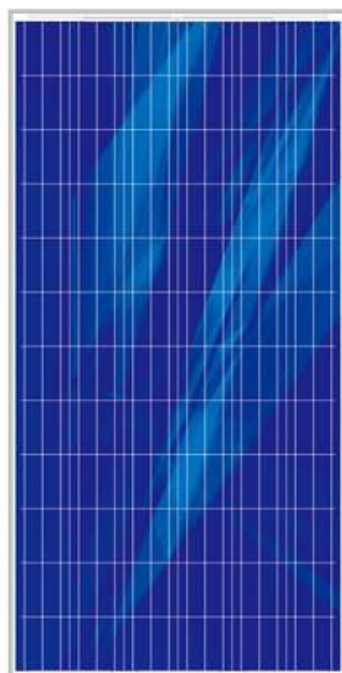
ELECTRICAL PARAMETERS

MODULE Type	MG SML265-60	MG SML260-60	MG SML255-60	MG SML250-60	MG SML245-60
Rated Maximum Power at STC (W)	265	260	255	250	245
Open Circuit Voltage (Voc/V)	38.37	38.23	38.09	38.539	38.351
Maximum Power Voltage (Vmp/V)	31.45	31.25	31.07	30.685	30.468
Short Circuit Current (Isc/A)	8.71	8.68	8.65	8.672	8.621
Maximum Power Current (Imp/A)	8.42	8.32	8.21	8.15	8.05
Module Efficiency (%)	16.27	15.97	15.66	15.36	15.05
Solar Cell Efficiency (%)	18.6	18.4	18.2	18.2	18.1
Power Tolerance (%)	0~+3	0~+3	0~+3	0~+3	0~+3
Temperature Coefficient of Isc	0.036	0.036	0.036	0.036	0.036
Temperature Coefficient of Voc	-0.33	-0.33	-0.33	-0.33	-0.33
Temperature Coefficient of Pmax	-0.45	-0.45	-0.45	-0.45	-0.45

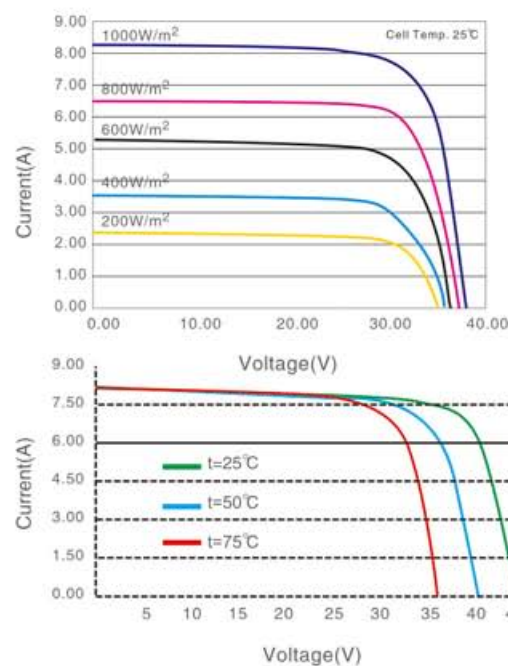
10-year product guarantee
 10-year power guarantee on min.90% of the given nominal power output
 25-year power guarantee on min.80% of the given nominal power output
 Best components according to German quality standards



MGSM295~315-72 (MONO-LIKE)



ELECTRICAL CHARACTERISTICS



MECHANICAL PARAMETERS

Cell type (mm)	156*156(mono-like)
Weight (kg)	23 Kg
Dimensions (L*W*H)(mm)	1956*992*50
Cable Length (mm)	900
No.of cells and connections	72 (12*6)
No.of diodes	6
Packing configuration	
Pcs/pallet	20
Pcs/20ft	180
Pcs/40ft	480

WORKING CONDITIONS

maximum System Voltage	DC 1000V
Operating Temp.	-40 to 85°C
maximum Series Fuse	15A
Max Wind Load / Max Snow Load	2400/5400Pa
NOCT	45±2°C
Application Class	Class A
Insulation Resistance	50MΩ

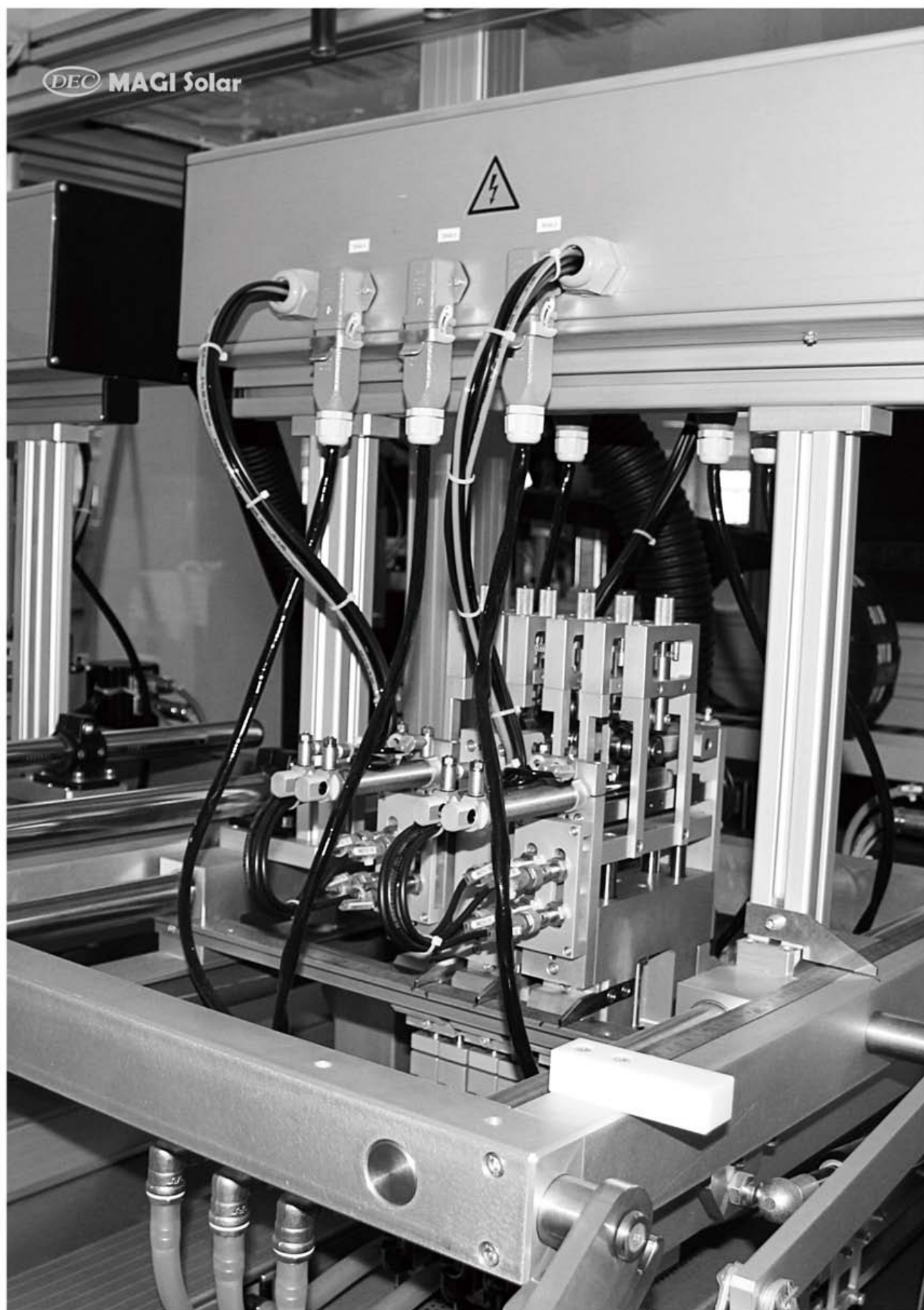
ELECTRICAL PARAMETERS

MODULE Type	MGSM315-72	MGSM310-72	MGSM305-72	MGSM300-72	MGSM295-72
Rated Maximum Power at STC (W)	315	310	305	300	295
Open Circuit Voltage (Voc/V)	46.67	46.51	46.36	45.27	45.23
Maximum Power Voltage (Vmp/V)	38.15	37.63	37.21	37.38	36.92
Short Circuit Current (Isc/A)	8.91	8.82	8.74	8.4	8.34
Maximum Power Current (Imp/A)	8.25	8.23	8.19	8.02	7.99
Module Efficiency (%)	16.07	15.82	15.56	15.36	15.05
Solar Cell Efficiency (%)	19.0	18.7	18.4	18.2	18.1
Power Tolerance (%)	0~+3	0~+3	0~+3	0~+3	0~+3
Temperature Coefficient of Isc	0.036	0.036	0.036	0.036	0.036
Temperature Coefficient of Voc	-0.33	-0.33	-0.33	-0.33	-0.33
Temperature Coefficient of Pmax	-0.45	-0.45	-0.45	-0.45	-0.45

10-year product guarantee
 10-year power guarantee on min.90% of the given nominal power output
 25-year power guarantee on min.80% of the given nominal power output
 Best components according to German quality standards



DEC MAGI Solar



www.magisolar.com



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