MSK CORPORATION

LPS125-135

Design Features

Maximized Power Output

- monocrystalline cells with 16.2% efficiency give highest power output even in low light conditions
- Individual cell outputs matched for optimal module performance
- Antireflective coating and highly transparent glass maximize energy yield

Robust, Reliable Construction

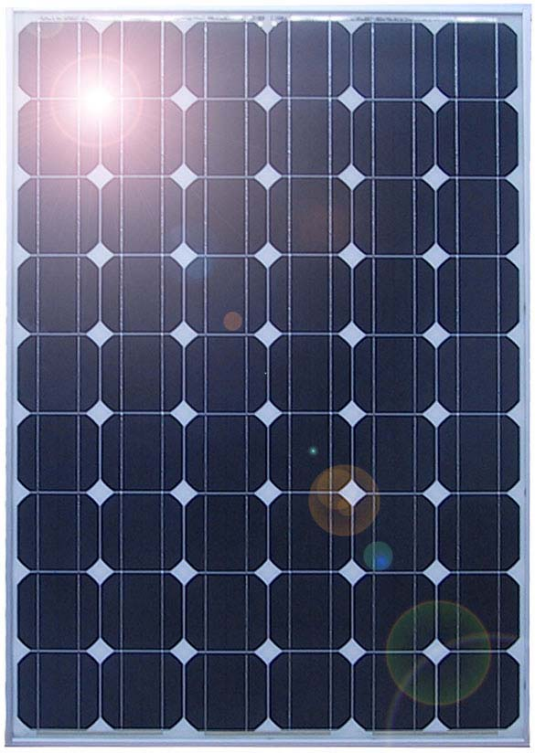
- Extra thick 50mm anodized aluminium frame
- Strengthened glass and protective backsheet prevent damage and water ingress
- junction box filled with silcone gel
- butyl gel provides extra protection against water ingress

Highest Quality Standards

- Certified with IEC 61215 and Safety Class II electrical and mechanical performance standards for long-term outdoor operation
- Manufactured in Japan in ISO 9001 certified facilities with 18 years solar module production history
- Every MSK module undergoes visual, electrical and mechanical testing before delivery

Seamless System Integration

- 6 holes in frame for easy installation in all system configurations
- Fitted with standard MC connectors and 1m cable
- 3 diodes in junction box to minimize system power loss from module shading



Electrical data

	value	tolerance
Output		
power	135W	90% or over
max power voltage	26.6V	
max power current	5.05A	
open circuit voltage	33.5V	±10%
short circuit current	5.68A	90% or over
* measured at standard test conditions of 1000W/m^2 irradiance, AM1.5 spectrum, 25°C cell temperature		
Temperature Coefficients		
Open circuit voltage	-108mV/°C	
Short-circuit current	+0.04 %/°C	
Maximum Output	-0.5 %/°C	
Performance Limits		
Maximum system voltage	DC600V	
Insulation resistance	50MΩ at 500VDC	
Ability to withstand voltage	2200V for 1 minute	

Mechanical data

	value	tolerance
Dimensions		±3mm
Length	1195mm	
Width	802mm	
Depth	50mm	
Weight	14kg	
Standard Operating Conditions*		
Temperature	-20 ~ +40°C	
Operating humidity	45 ~ 95%RH	
Snow load (long-term)	2460Pa (251kgf/m^2)	
Wind load (short-term)	3691Pa (377kgf/m^2)	
* maximum performance limits conform to IEC 61215 standards		

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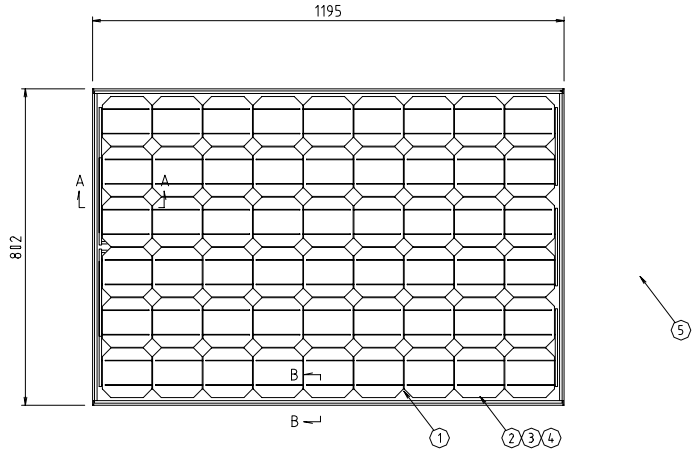
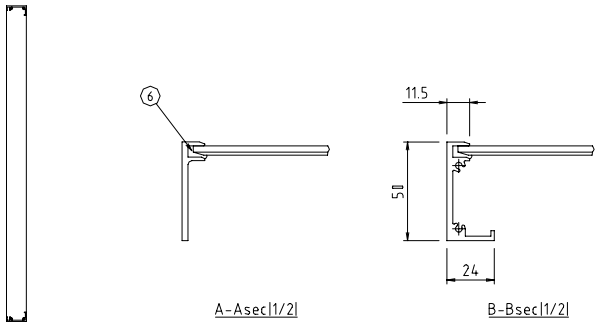
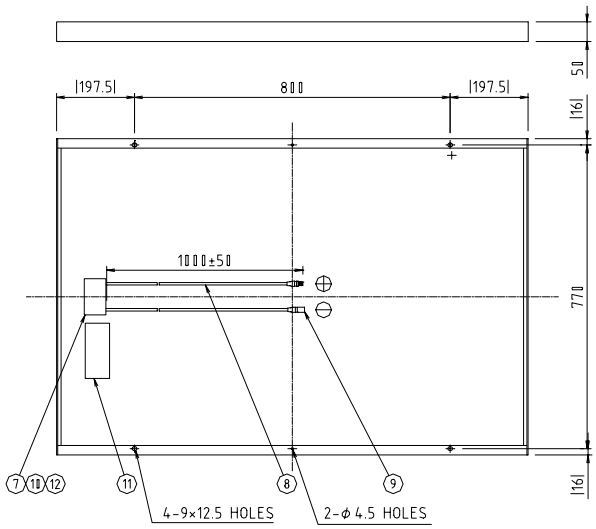
- Qualified, IEC 61215
- Safety tested, TUV-Spec 931/2.572.9
- Periodic Inspection





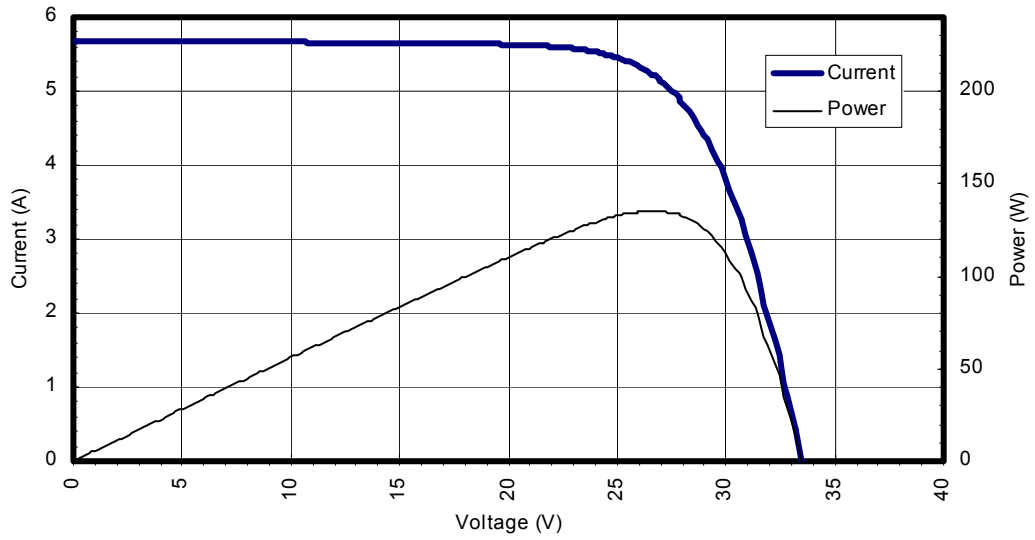


Construction

item		number	comment
1	cell	54	125.5 x 125.5 monocrystalline
2	EVA	xx	
3	tedlar	1	white
4	glass	1	tempered glass 3.2mm
5	frame	1 set	50mm clear anodized aluminium
6	butyl rubber	xx	
7	junction box	1	
8	+ output wire	1	HCV 3.5-1C, MC connector
9	- output wire	1	HCV 3.5-1C, MC connector
10	bypass diode	3	600V
11	label	1	
12	silcone sealant	xx	to fill junction box

I-V curve

Typical LPS125-135 Characteristic @ 25°C



MSK CORPORATION

MSK Corporation Head Office
19F STEC Joho Building, 1-24-1
West Shinjuku, Shinjuku Ward,
Tokyo 160 0023, Japan
Tel: +81 3 3342 3838
Fax: +81 3 3342 6534
staff@msk.ne.jp
www.msk.ne.jp

MSK Limited
704 Golden Gate Commercial
Building, 136-138 Austin Road
Kowloon, Hong Kong
Tel: +852 2314 3989
Fax: +852 2314 3980
staff@msk-hk.com

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