

# LPS125-180

## 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

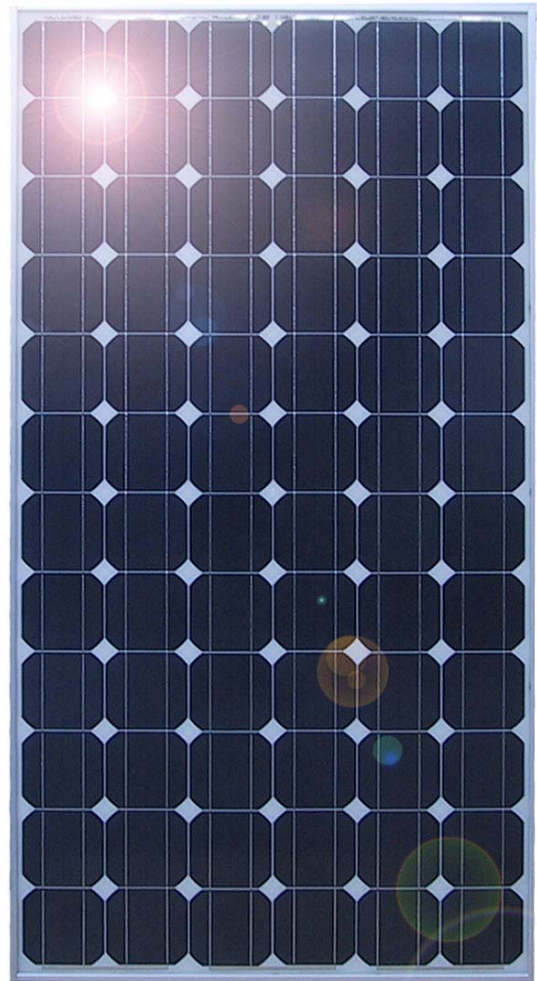
- Extra thick 50mm anodized aluminium frame
- Strengthened glass and protective backsheet prevent damage and water ingress
- junction box filled with silicone gel
- butyl gel provides extra protection against water ingress

### 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

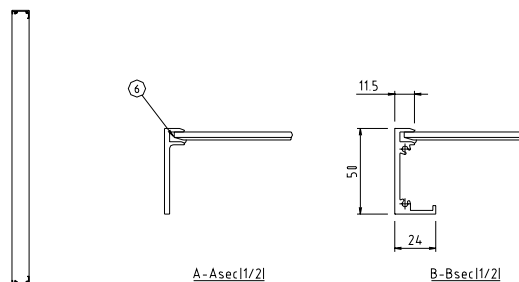
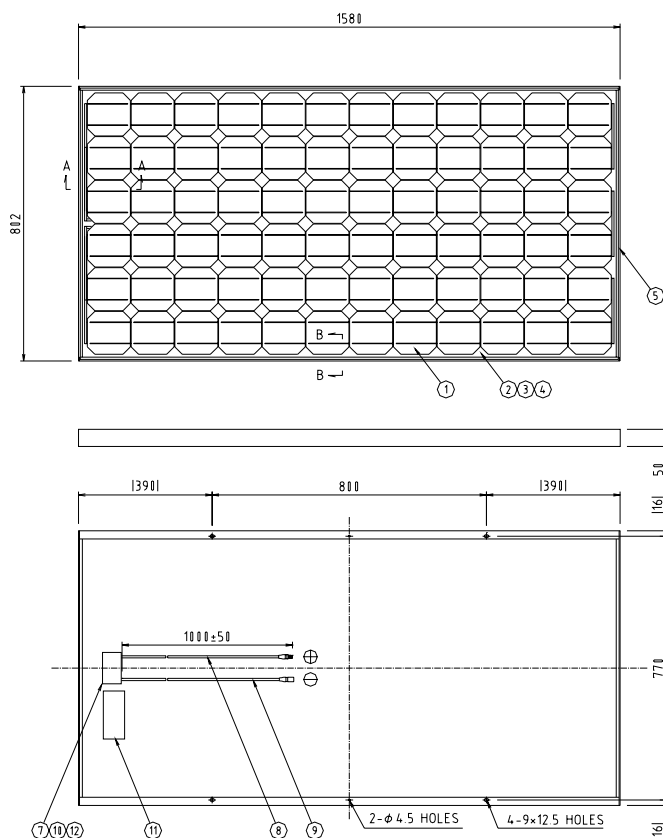
	value	tolerance
<b>Output</b>		
power	180W	90% or over
max power voltage	35.6V	
max power current	5.05A	
open circuit voltage	44.6V	±10%
short circuit current	5.68A	90% or over
<small>* measured at standard test conditions of 1000W/m<sup>2</sup> irradiance, AM1.5 spectrum, 25°C cell temperature</small>		
<b>Temperature Coefficients</b>		
Open circuit voltage	-144mV/°C	
Short-circuit current	+0.04%/°C	
Maximum Output	-0.5%/°C	
<b>Performance Limits</b>		
Maximum system voltage	DC600V	
Insulation resistance	50MΩ at 500VDC	
Ability to withstand voltage	2200V for 1 minute	

## Mechanical data

	value	tolerance
<b>Dimensions</b>		±3mm
Length	1580mm	
Width	802mm	
Depth	50mm	
<b>Weight</b>	18kg	
<b>Standard Operating Conditions*</b>		
Temperature	-20 ~ +40	
Operating humidity	45 ~ 95%RH	
Snow load (long-term)	1841Pa (188kgf/m <sup>2</sup> )	
Wind load (short-term)	2762Pa (282kgf/m <sup>2</sup> )	
<small>* maximum performance limits conform to IEC 61215 standards</small>		



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

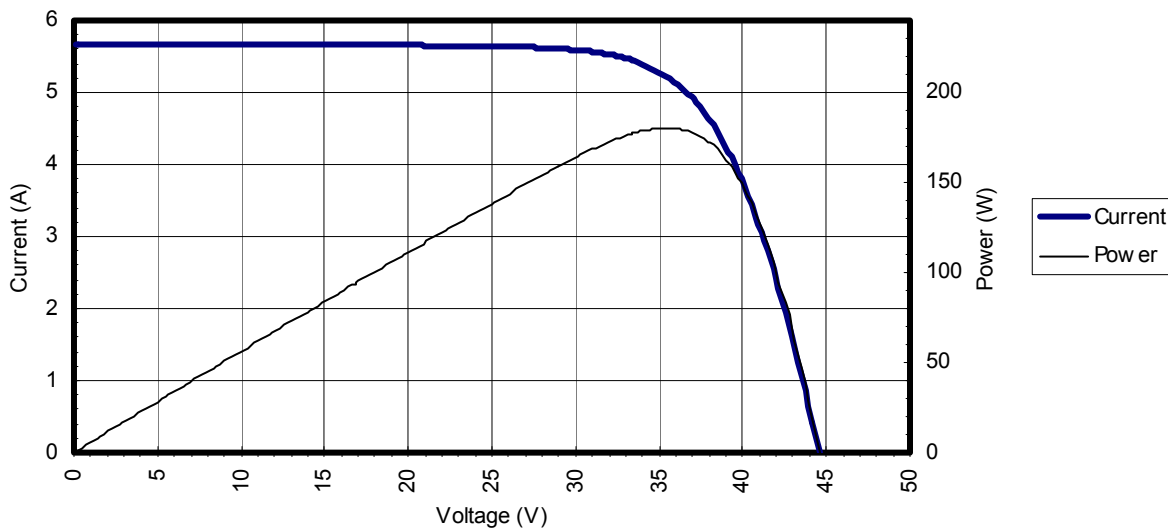


## Construction

item	number	comment
1	cell	72 125.5 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	silicone sealant	xx to fill junction box

## I-V curve

Typical LPS125-180 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

