

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
Output		
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

* measured at standard test conditions of 1000W/m² irradiance, AM1.5 spectrum, 25°C cell temperature

Temperature Coefficients	
Open circuit voltage	-144mV/°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

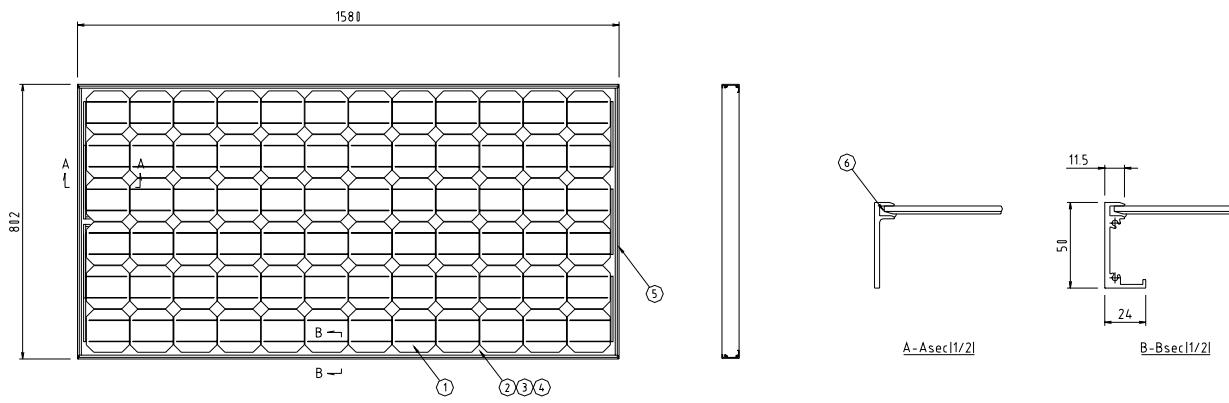
Mechanical data

	value	tolerance
Dimensions		
Length	1580mm	±3mm
Width	802mm	
Depth	50mm	
Weight		
	18kg	
Standard Operating Conditions*		
Temperature	-20 ~ +40	
Operating humidity	45 ~ 95%RH	
Snow load (long-term)	1841Pa (188kgf/m ²)	
Wind load (short-term)	2762Pa (282kgf/m ²)	

* maximum performance limits conform to IEC 61215 standards



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

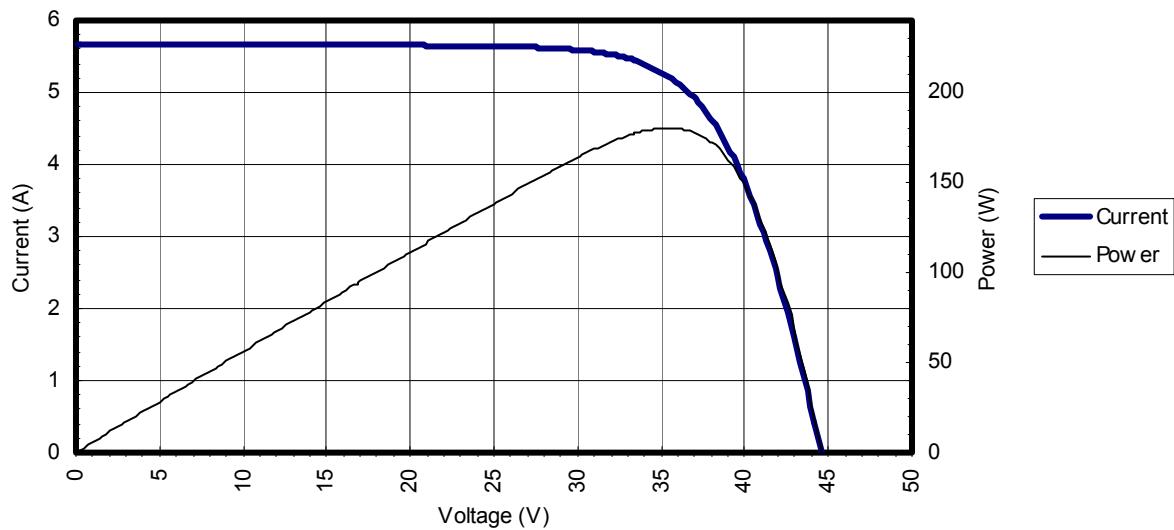


Construction

item	number	comment
1 cell	72	125.5 x 125.5 monocrystalline
2 EVA	xx	
3 teflon	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



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