Sunport

Flex Series

S-FLEX 1 · 75-90W

MWT Cast-mono PERC Flexible Module

17.1%

Module efficiency up to 17.1%

Flexible PV Module

Light, Thin Design
1.4mm thickness, 1.3kg weight, leading level in PV industry

BIPV Application
Further integrate with buildings in terms of shape and installation for BIPV application

High Reliability
Conductive back sheet 2D encapsulation without soldering, resulted lower degradation under multiple extreme testing condition

Ultra Flexible
Ultra-thin silicon wafers with advanced organic polymer encapsulation materials

High Efficiency
MWT back contact cell and modules with busbar-free design and higher efficiency

Lead Free
Eco-friendly PV design achieves Lead-free MWT module without soldering materials

Insured by LLOYD'S

LLOYD'S

12year Quality Warranty

25year Performance Warranty

※1st year degradation less than 2.5%, 25 years power output 82.36% guaranteed.

Comprehensive Qualifications & Certifications

★ ISO 9001: 2015 Quality Management System
★ ISO 14001: 2015 Environment Management System
★ ISO 45001: 2018 Occupation Health Safety Management System

TÜV NORD Type Tested

PV CYCLE

CQC

CEC Approved

CE

ISO

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Electrical Characteristics at Standard Test Conditions(STC)

Spec/Model	Unit	SPP075NH1S	SPP080NH1S	SPP085NH1S	SPP090NH1S
Max-Power(Pm)	W	75	80	85	90
Power Tolerance	W	0~+5			
Max-Power Voltage(Vm)	V	16.0	16.2	16.4	16.6
Max-Power Current(Im)	A	4.69	4.94	5.18	5.42
Open-Circuit Voltage(Voc)	V	19.7	19.9	20.1	20.3
Short-Circuit Current(Isc)	A	4.98	5.22	5.42	5.62
Module Efficiency(ηm)	%	14.3	15.2	16.2	17.1
STC: AM=1.5，Irradiation 1000W/m^2，Module Temperature 25°C					

Electrical Characteristics at Nominal Module Operating Temperature (NMOT)

Spec/Model	Unit	SPP075NH1S	SPP080NH1S	SPP085NH1S	SPP090NH1S
Max-Power(Pm)	W	56	61	64	68
Max-Power Voltage(Vm)	V	14.4	14.7	15.0	15.3
Max-Power Current(Im)	A	3.88	4.07	4.27	4.42
Open-Circuit Voltage(Voc)	V	18.1	18.3	18.5	18.7
Short-Circuit Current(Isc)	A	4.11	4.29	4.48	4.65
NMOT: Irradiation 800W/m^2, ambient temperature 20°C, Wind Speed 1m/s					

Temperature Coefficient

Nominal Module Operating Temperature	43±2°C
Temperature coefficient of Pmax	-0.36%/°C
Temperature coefficient of Voc	-0.28%/°C
Temperature coefficient of Isc	0.06%/°C

Operating Conditions

Max. system voltage	DC1500V(IEC)
Max. series fuse rating	9A
Operating temperature range	-40°C～+85°C

Package

Container Size	Quantity(pcs)	Quantity(per pallet)
40' HQ	3600	150

Mechanical Characteristics

Dimension(L×W×H)	1810mmx290mmx1.4mm
Weight	1.3kg
Back material	Back Sheet(white)
Cell (quantity / material / type / dimensions)	3*10/ Cast-mono/ 162.75mm
Encapsulant	EVA/POE
Frame	None
Junction box(protection degree)	IP68
Cable (length/cross-section area)	Customizable / 4mm^2
Connector	MC4 Compatible

Module Size

I-V Curve

I-V Curves of SPP085NH1S at different irradiance

I-V Curves of SPP085NH1S at different cell temperature