



Flex Series

S-FLEX 1 · 75-90W
MWT Mono PERC Flexible Module

17.1%

Module efficiency up to 17.1%

Flexible PV Module

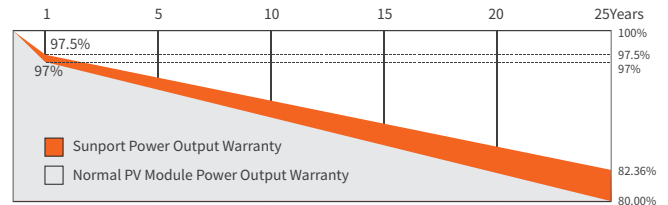
- Light, Thin Design**
1.4mm thickness, 1.3kg weight, leading level in PV industry
- BIPV Application**
Further integrate with buildings in terms of shape and installation for BIPV application
- High Reliability**
Conductive back sheet 2D encapsulation without soldering, resulted lower degradation under 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

Reinsurance Coverage for 25 Years



Insured by **LLOYD'S**



※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



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/m², 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/m², ambient temperature 20°C, Wind Speed 1m/s

Temperature Coefficient

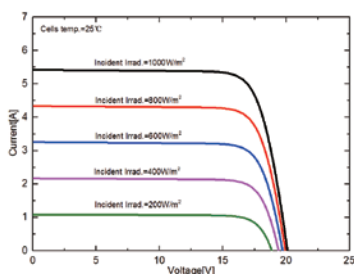
Nominal Module Operating Temperature	43±2°C
Temperature coefficient of Pmax	-0.36%/°C
Temperature coefficient of Voc	-0.28%/°C
Temperature coefficient of Isc	0.06%/°C

Mechanical Characteristics

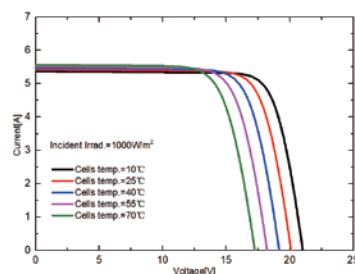
Dimension(L×W×H)	1810mmx290mmx1.4mm
Weight	1.3kg
Back material	Back Sheet(white)
Cell (quantity / material / type / dimensions)	30(3*10) Mono PERC / 162.75*81.375mm
Encapsulant	POE
Frame	None
Junction box(Protection degree)	IP68
Cable (length/cross-section area)	Customizable / 4mm ²
Connector	MC4 Compatible

I-V Curve

I-V Curves of SPP085NH1S at different irradiance



I-V Curves of SPP085NH1S at different cell temperature



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

Module Size

