







# S-FLEX · S-FLEX · 80-85W

## MWT Mono PERC Flexible Module



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

### Features

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**Light, Thin design**  
 1.33kg weight, match various requirements for low-load projects
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**Customizable**  
 Customized design for different scenarios
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**Ultra Flexible**  
 Ultra-thin silicon wafers with advanced organic polymer encapsulation materials, minimum bending radius reach 0.30m, fit all kinds of curved surface perfectly
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**High Efficiency And Reliability**  
 Busbar-free design increases cell conversion efficiency, more power output can be achieved at low irradiance conditions
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**Convenient Installation**  
 Easy installation and convenient transportation with lower cost
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**Lead-free**  
 Eco-friendly PV design achieves lead-free MWT module without soldering materials

### Electrical Characteristics at Standard Test Conditions(STC)

Spec/Model	Unit	SPP080QH1S	SPP085QH1S
Max-Power(Pm)	W	80	85
Power Tolerance	W	0~+5	
Max-Power Voltage(Vm)	V	16.8	17.0
Max-Power Current(I <sub>m</sub> )	A	4.76	5.01
Open-Circuit Voltage(Voc)	V	20.2	20.4
Short-Circuit Current(I <sub>sc</sub> )	A	5.09	5.38
Effective Module Efficiency(η <sub>m</sub> )	%	16.6	17.7

STC: AM=1.5, Irradiation 1000W/m<sup>2</sup>, Module Temperature 25°C

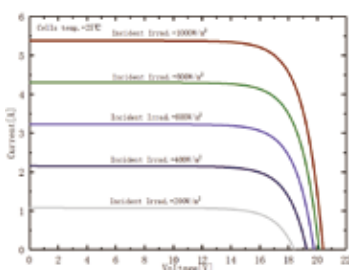
### Electrical Characteristics at Nominal Module Operating Temperature (NMOT)

Spec/Model	Unit	SPP080QH1S	SPP085QH1S
Max-Power(Pm)	W	59	63
Max-Power Voltage(Vm)	V	15.4	15.6
Max-Power Current(I <sub>m</sub> )	A	3.83	4.04
Open-Circuit Voltage(Voc)	V	18.8	19.0
Short-Circuit Current(I <sub>sc</sub> )	A	4.15	4.35

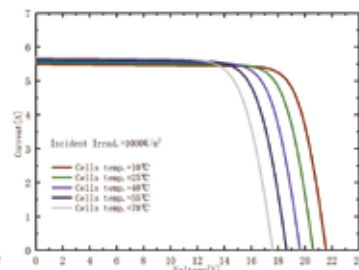
NMOT: Irradiation 800W/m<sup>2</sup>, Ambient temperature 20°C, Wind Speed 1m/s

### I-V Curve

I-V Curves of SPP085QH1S at different irradiance



I-V Curves of SPP085QH1S at different cell temperature



### Temperature Coefficient

Nominal Module Operating Temperature	43±2°C
Temperature coefficient of P <sub>max</sub>	-0.36%/°C
Temperature coefficient of Voc	-0.28%/°C
Temperature coefficient of I <sub>sc</sub>	0.06%/°C

### Mechanical Characteristics

Installation Module Dimension (L×W×H)	1840mm×295mm×1.7mm
Weight	1.33 kg
Back material	Back Sheet(black)
Cell (quantity / material / type / dimensions)	30(3x10)/Mono /166*83mm /φ223mm
Frame	EVA
Junction box(Protection degree)	IP68
Cable (length/cross-section area)	Customizable/ 4mm <sup>2</sup>
Connector	MC4 Compatible

### Module Size

