


17.7%

Module efficiency

3year

Quality/Performance Warranty







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

- 
Light, Thin design
 1.43kg weight, match various requirements for low-load projects
- 
Customizable
 Customized design for different scenarios
- 
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
- 
High Efficiency And Reliability
 Busbar-free design increases cell conversion efficiency, more power output can be achieved at low irradiance conditions
- 
Convenient Installation
 Easy installation and convenient transportation with lower cost
- 
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(Im)	A	4.76	5.01
Open-Circuit Voltage(Voc)	V	20.2	20.4
Short-Circuit Current(Isc)	A	5.09	5.38
Effective Module Efficiency(ηm)	%	16.6	17.7

 STC: AM=1.5, Irradiation 1000W/m², Module Temperature 25°C

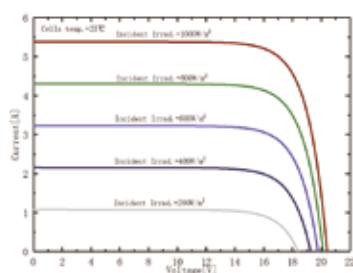
Electrical Characteristics at Nominal Module Operating Temperature (NMOT)

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

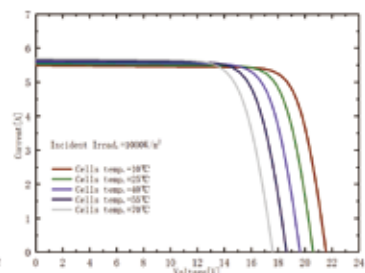
 NMOT: Irradiation 800W/m², Ambient temperature 20°C, Wind Speed 1m/s

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 Pmax	-0.36%/°C
Temperature coefficient of Voc	-0.28%/°C
Temperature coefficient of Isc	0.06%/°C

Mechanical Characteristics

Installation Module Dimension (L×W×H)	463mm×1040mm×2.5mm
Weight	1.43 kg
Back material	Back Sheet(black/white)
Cell (quantity / material / type / dimensions)	30(5×6)/Mono /166*83mm /φ223mm
Frame	None
Junction box(Protection degree)	None

Module Size

