


18.8%

Module efficiency

3year

Quality/Performance Warranty







S-FLEX · 170-180W

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
 2.85kg 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	SPP170QH60S	SPP175QH60S	SPP180QH60S
Max-Power(Pm)	W	170	175	180
Power Tolerance	W		0~+5	
Max-Power Voltage(Vm)	V	33.7	33.9	34.1
Max-Power Current(I _m)	A	5.05	5.16	5.28
Open-Circuit Voltage(Voc)	V	40.9	41.1	41.3
Short-Circuit Current(I _{sc})	A	5.32	5.44	5.56
Effective Module Efficiency(η _m)	%	17.8	18.3	18.8

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

Electrical Characteristics at Nominal Module Operating Temperature (NMOT)

Spec/Model	Unit	SPP170QH60S	SPP175QH60S	SPP180QH60S
Max-Power(Pm)	W	125	129	133
Max-Power Voltage(Vm)	V	31.4	31.6	31.8
Max-Power Current(I _m)	A	3.89	4.08	4.18
Open-Circuit Voltage(Voc)	V	38.1	38.3	38.5
Short-Circuit Current(I _{sc})	A	4.30	4.40	4.50

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

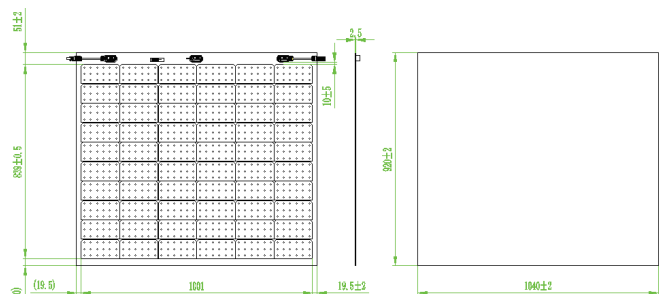
Temperature Coefficient

Nominal Module Operating Temperature	43±2°C
Temperature coefficient of P _{max}	-0.36%/°C
Temperature coefficient of V _{oc}	-0.28%/°C
Temperature coefficient of I _{sc}	0.06%/°C

Mechanical Characteristics

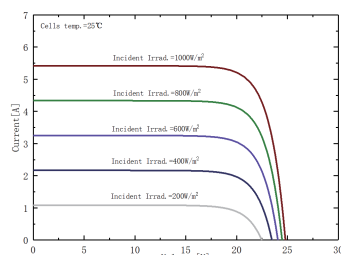
Installation Module Dimension (L×W×H)	920mm×1040mm×2.5mm
Weight	2.85 kg
Back material	Back Sheet(black/white)
Cell (quantity / material / type / dimensions)	60(6x10)/Mono /166*83mm /φ223mm
Frame	None
Junction box(Protection degree)	IP68
Cable (length/cross-section area)	Customizable/ 4mm ²
Connector	MC4 Compatible

Module Size



I-V Curve

I-V Curves of SPP175QH60S at different irradiance



I-V Curves of SPP175QH60S at different cell temperature

