


18.3%

Module efficiency

3year

Quality/Performance Warranty







S-FLEX · 100-105W

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
 1.48kg 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	SPP100QH36S	SPP105QH36S
Max-Power(Pm)	W	100	105
Power Tolerance	W	0~+5	
Max-Power Voltage(Vm)	V	20.4	20.6
Max-Power Current(Im)	A	4.91	5.11
Open-Circuit Voltage(Voc)	V	24.6	24.8
Short-Circuit Current(Isc)	A	5.22	5.42
Effective Module Efficiency(ηm)	%	17.5	18.3

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

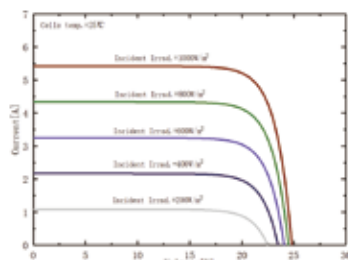
Electrical Characteristics at Nominal Module Operating Temperature (NMOT)

Spec/Model	Unit	SPP100QH36S	SPP105QH36S
Max-Power(Pm)	W	72	76
Max-Power Voltage(Vm)	V	18.5	18.7
Max-Power Current(Im)	A	3.89	4.06
Open-Circuit Voltage(Voc)	V	22.5	22.7
Short-Circuit Current(Isc)	A	4.21	4.38

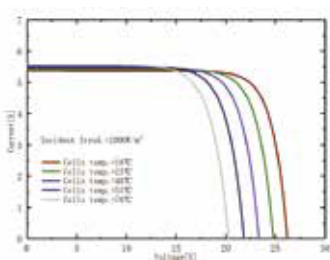
 NMOT: Irradiation 800W/m², Ambient temperature 20°C, Wind Speed 1m/s

I-V Curve

I-V Curves of SPP105QH36S at different irradiance



I-V Curves of SPP105QH36S 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)	580mm×1040mm×1.7mm
Weight	1.48 kg
Back material	Back Sheet(black/white)
Cell (quantity / material / type / dimensions)	36(6x6)/Mono /166*83mm /φ223mm
Frame	None
Junction box(Protection degree)	IP68
Cable (length/cross-section area)	Customizable/ 4mm ²
Connector	MC4 Compatible

Module Size

