


**S-Flex
Series**
17.3%

Module efficiency

3year

Quality/Performance Warranty

S-FLEX · 45-50W

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

0.79kg 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)

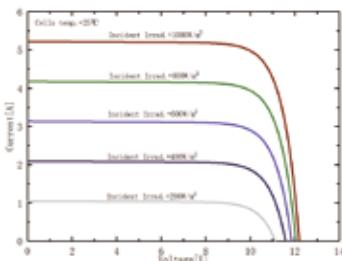
Spec/Model	Unit	SPP045QH18S	SPP050QH18S
Max-Power(Pm)	W	45	50
Power Tolerance	W	0~+5	
Max-Power Voltage(Vm)	V	10.0	10.2
Max-Power Current(Im)	A	4.5	4.91
Open-Circuit Voltage(Voc)	V	12.0	12.2
Short-Circuit Current(Isc)	A	4.78	5.22
Effective Module Efficiency(nm)	%	15.6	17.3
STC: AM=1.5, Irradiation 1000W/m ² , Module Temperature 25°C			

Electrical Characteristics at Nominal Module Operating Temperature (NMOT)

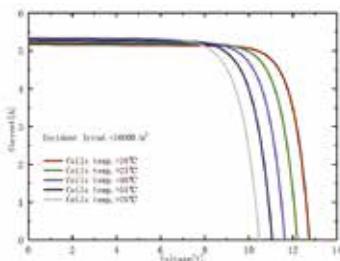
Spec/Model	Unit	SPP045QH18S	SPP050QH18S
Max-Power(Pm)	W	33	37
Max-Power Voltage(Vm)	V	9.2	9.4
Max-Power Current(Im)	A	3.59	3.94
Open-Circuit Voltage(Voc)	V	11.2	11.4
Short-Circuit Current(Isc)	A	3.81	4.22
NMOT: Irradiation 800W/m ² , Ambient temperature 20°C, Wind Speed 1m/s			

I-V Curve

I-V Curves of SPP050QH18S at different irradiance



I-V Curves of SPP050QH18S 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)	545mm×530mm×2.5mm
Weight	0.79 kg
Back material	Back Sheet(black/white)
Cell (quantity / material / type / dimensions)	18(3x6)/Mono /166*83mm /φ223mm
Frame	None
Junction box(protection degree)	None

Module Size

