

## Electrical Characteristics at Standard Test Conditions(STC)

Spec/Model	Unit	SPP310M60S	SPP315M60S	SPP320M60S	SPP325M60S	SPP330M60S
Max-Power(Pm)	W	310	315	320	325	330
Power Tolerance	W	0~+5				
Max-Power Voltage(Vm)	V	32.8	33.0	33.2	33.4	33.6
Max-Power Current(I <sub>m</sub> )	A	9.45	9.55	9.64	9.73	9.82
Open-Circuit Voltage(V <sub>oc</sub> )	V	39.9	40.1	40.3	40.5	40.7
Short-Circuit Current(I <sub>sc</sub> )	A	9.83	9.90	9.99	10.08	10.2
Effective Module Efficiency(η <sub>m</sub> )	%	20.22	20.55	20.88	21.20	21.53

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

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

Spec/Model	Unit	SPP310M60S	SPP315M60S	SPP320M60S	SPP325M60S	SPP330M60S
Max-Power(Pm)	W	232	236	240	244	248
Max-Power Voltage(V <sub>m</sub> )	V	30.0	30.2	30.4	30.6	30.8
Max-Power Current(I <sub>m</sub> )	A	7.73	7.81	7.89	7.97	8.05
Open-Circuit Voltage(V <sub>oc</sub> )	V	36.5	36.6	36.7	36.8	36.9
Short-Circuit Current(I <sub>sc</sub> )	A	8.05	8.12	8.20	8.30	8.41

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

## Temperature Coefficient

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

## Operating Conditions

Max. system voltage	DC1500V(IEC)
Max. series fuse rating	15A
Operating temperature range	-40 ~+85
Bending radius	>0.20m

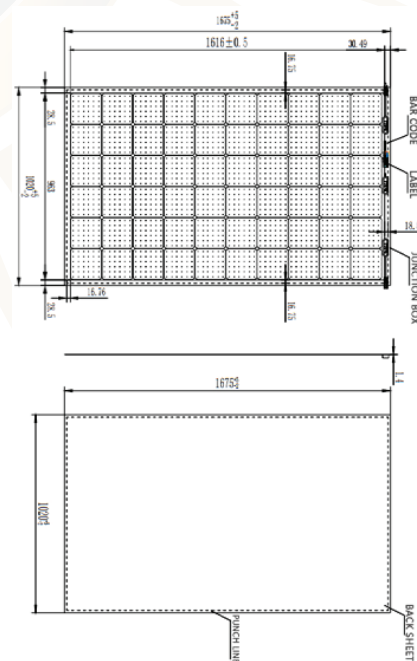
## Mechanical Characteristics

Effective Module Dimension(L×W)	1598.75mmx958.75mm
Module Installation Dimension(L×W×H)	1675mmx1020mmx1.4mm
Weight	4.3 kg
Back material	Back Sheet(white, transparent, black)
Cell (quantity / material / type / dimensions)	60(10x6) / Monocrystalline / 158.75mm
Encapsulant	EVA/POE
Frame	None
Junction box(protection degree)	IP68
Cable (length/cross-section area)	Customizable / 4mm <sup>2</sup>
Connector	MC4 Compatible
Mounting Hole	Aperture 5mm

## Package

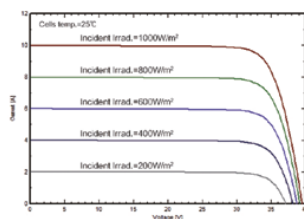
Container Size	Quantity(pcs)	Quantity(per pallet)
40HQ	1104	46

## Module Size

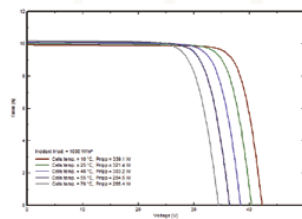


## I-V Curve

I-V Curves of SPP320M60S at different irradiance



I-V Curves of SPP320M60S at different cell temperature



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