Mono 60 Cells





Flexible PV Module •



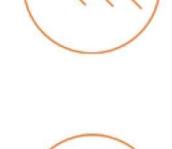
Flexible

Flexible polymer materials and MWT PCB packaging technology.



The highest efficiency of the series is up to 19.5%.

High efficiency



Ultra thin

The PV Module thickness is only 1.4mm.



Light weight

Weight is reduced by more than 70%.



Easy Installation

Installation cost is reduced by about 50%.



Attractive design

Specially designed grid feature, nice-looking.



Heat-Resistant Temperature coefficiency is low to -0.36%/℃. More power

output in hot environment.

Anti-PID



With specific treatment, PV module passed strict PID test, no PID risk.

Comprehensive System & Product Certification

★OHSAS 18001: 2007 Occupation Health Safety Management System

MWT Back Contact Solar Cell

- New cell structure and different manufacturing process.
- ■No bus-bar on the front. 3% less shadow and better use of sunlight.
- Effectively avoid the micro crack caused by the pressure between cell edge and ribbon.
- Compatible with other cell types including PERC, HIT, Black Silicon etc.



★TUV NORD Certification



★ISO 9001: 2015 Quality Management System

★ISO 14001: 2015 Environment Management System





VELITRONIC ELEKTRO

Insured by PICC



Typical Electrical Characteristics at Standard Test Conditions(STC)

Spec / Model	Unit	SPP290M60S	SPP295M60S	SPP300M60S	SPP305M60S	SPP310M60S	SPP315M60S	SPP320M60S
Max-Power(Pm)	W	290	295	300	305	310	315	320
Power Tolerance	%				0~+3%			
Max-Power Voltage(Vm)	\vee	31.2	31.4	31.6	31.8	32.0	32.2	32.4
Max-Power Current(Im)	Α	9.30	9.40	9.50	9.60	9.69	9.79	9.88
Open-Circuit Voltage(Voc)	\vee	38.4	38.6	38.8	39.0	39.2	39.4	39.6
Short-Circuit Current(Isc)	Α	9.50	9.58	9.66	9.74	9.82	9.90	9.98
Module Efficiency(ηm)	%	17.6	18.0	18.3	18.6	18.9	19.2	19.5
STC:AM=1.5, Irradiance 1000W/m², Module Temperature 25℃								

Typical Eletrical Characteristics at Nominal Module Operating Temperature (NMOT)

Spec / Model	Unit	SPP290M60S	SPP295M60S	SPP300M60S	SPP305M60S	SPP310M60S	SPP315M60S	SPP320M60S
Max-Power(Pm)	W	216	220	224	228	232	236	240
Max-Power Voltage(Vm)	\vee	28.5	28.7	28.9	29.1	29.3	29.5	29.7
Max-Power Current(Im)	Α	7.58	7.67	7.76	7.84	7.93	8.01	8.09
Open-Circuit Voltage(Voc)	\vee	35.5	35.6	35.7	35.8	35.9	36.0	36.1
Short-Circuit Current(Isc)	Α	7.65	7.74	7.85	7.93	8.04	8.12	8.22
NMOT:Irradiance 800W/m2, Ambient Temperature 20℃, wind speed 1m/s								

Thermal Characteristics

Nominal Module Operating Temperature	43 ± 2°C
Temperature coefficient of Pmax	-0.36%/°C
Temperature coefficient of Voc	-0.28%/℃
Temperature coefficient of Isc	0.06%/℃

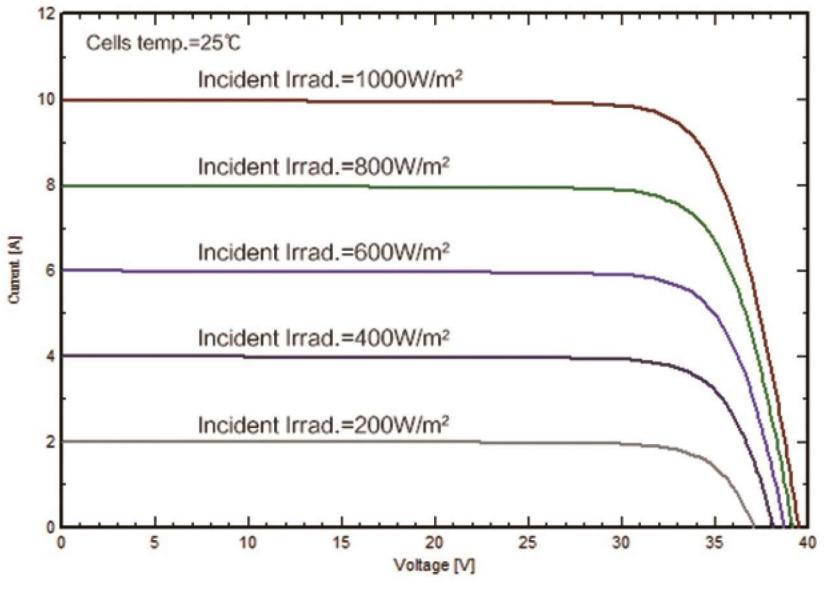
Mechanical Characteristics

$Dimension(L \times W \times H)$	1660mmx990mmx1.4mm
Weight	4.0 kg
Back material	Backplane(white, transparent, black)
Cell (quantity/material/type/dimensions)	60(10x6)/ Monocrystalline-PERC/6 inches
Encapsulant (material)	EVA
Frame	None
Junction box(protection degree)	IP68
Cable (length/cross-section area)	Customize by customer/4mm2
Connector	MC4 Compatible

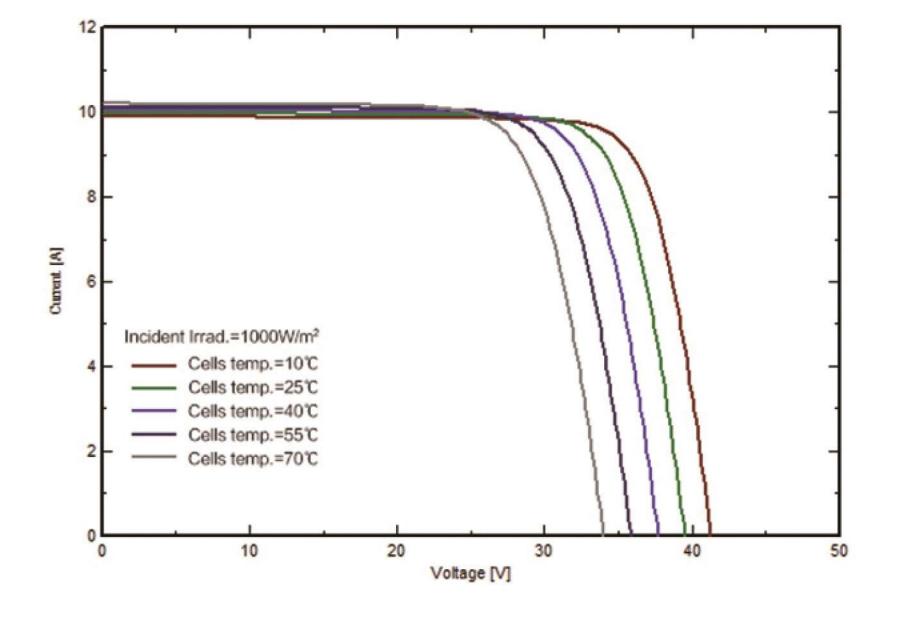
I-V Curves



I-V Curves of SPP310M60S1 at different irradiance



I-V Curves of SPP310M60S1 at different cell temperature



Operating Conditions

	Max. system voltage	DC1000V(IEC)
	Max. series fuse rating	15A
	Operating temperature range	-40°C ~ +85°C
	Bending radius	≥0.20m

Dimensions

