Benchmark II

SPP300-330M60

Benchmark II SPP305-335M60

305-335W MWT Module

Mono 60 Cells

20.6%

Module efficiency up to 20.6%

Benchmark MWT PV Module

Higher Efficiency
The highest efficiency of the series is up to 20.6%.

Lower Degradation
At least 98% of the initial effective output at the 1st year and 82% at the 30th year.

Higher Yield
Higher power generation on the same installation.

Corrosion-Resistant
Certified for Ammonia Resistance and Salt Mist Corrosion .

Anti-PID
Certified for Anti-PID under 85℃/85%RH, for 288hrs.

Heat-Resistant
Remain peak performance in hot days（-0.36%/℃）.

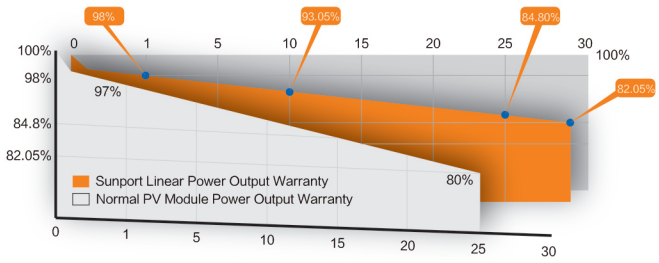
Reinsurance Coverage for 30 Years

●The "conductive foil line" and metal foil greatly improved the performance and reliability.

●The PCB packaging technology avoids soldering lines of conventional module, reducing 2-4% of package loss.

12 Years Quality Warranty

30 Years Performance Warranty



Comprehensive Qualifications & Certifications

★IEC 61215, IEC 61730, IEC 61701, IEC 62716, IEC 60068-2-68.
★ISO 9001：2015 Quality Management System
★OHSAS 18001：2007 Occupation Health Safety Management System
★CQC&CGC Top Runner Advanced Technology Certification (4A class)
★ISO 14001：2015 Environment Management System
★ TUV NORD and UK NQA Quality System Certification

Jiangsu Sunport Power Corp.,Ltd

Add：No.20, Xishi Road, Xinwu District, Wuxi,China Tel：(86)25—86110739 (86)510-81123328 Web：www.sunportpower.com

Electrical Characteristics at Standard Test Conditions(STC)

Spec/Model	Unit	SPP305M60	SPP310M60	SPP315M60	SPP320M60	SPP325M60	SPP330M60	SPP335M60
Max-Power(Pm)	W	305	310	315	320	325	330	335
Power Tolerance	%				0~+3%			
Max-Power Voltage(Vm)	V	31.8	32.0	32.2	32.4	32.6	32.8	33.0
Max-Power Current(Im)	A	9.60	9.69	9.79	9.88	9.97	10.07	10.16
Open-Circuit Voltage(Voc)	V	39.0	39.2	39.4	39.6	39.8	40.0	40.2
Short-Circuit Current(Isc)	A	10.12	10.20	10.28	10.36	10.44	10.52	10.62
Module Efficiency(η m)	%	18.7	19.1	19.4	19.7	20.0	20.3	20.6

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

Electrical Characteristics at Nominal Module Operating Temperature (NMOT)

Spec/Model	Unit	SPP305M60	SPP310M60	SPP315M60	SPP320M60	SPP325M60	SPP330M60	SPP335M60
Max-Power(Pm)	W	228	232	236	240	244	248	251
Max-Power Voltage(Vm)	V	29.1	29.3	29.5	29.7	29.9	30.1	30.3
Max-Power Current(Im)	A	7.84	7.93	8.01	8.09	8.17	8.25	8.30
Open-Circuit Voltage(Voc)	V	35.8	35.9	36.0	36.1	36.2	36.3	36.5
Short-Circuit Current(Isc)	A	8.27	8.35	8.43	8.51	8.59	8.67	8.76

NMOT: Irradiation 800W/m², ambient temperature 20℃,Wind Speed 1m/s

Temperature Coefficient

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

Package

Container Size	Quantity(pcs)	Quantity(pallet)
20’ GP	360	12
40’ GP	840	28
40’ HC	840/910	28

Mechanical Property

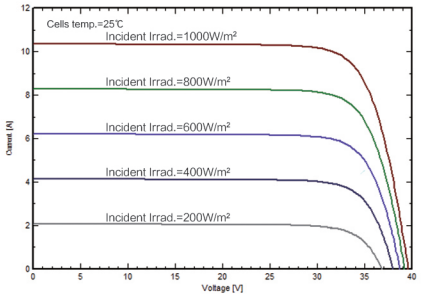
Dimension(L×W×H)	1640mmx992mmx35mm
Weight	18.5kg
Glass Type	High Transmittance Anti-reflective Coated Tempered Glass /3.2mm
Solar Cell	60(10x6)/Mono/ 6inches
Encapsulant	EVA
Frame	Anodized Aluminum Alloy / Silver
Junction Box	IP65 & IP67
Cable	1000mm / 4mm²
Connector	MC4 Compatible

Operating Conditions

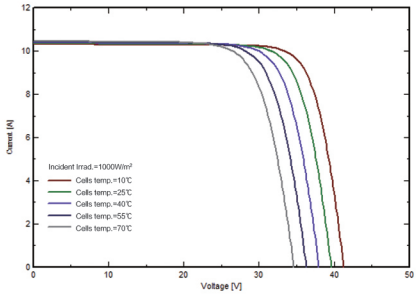
Max System Voltage	DC1000V(TUV)
Max Fuse Rated Current	15A
Operating Temperature Range	-40℃~+85℃
Mechanical Load	5400Pa/2400Pa
Max Allowable Hail Load	ϕ25mm hail, from 1m of distance at 23 m/s
Application Class	Class A

I-V Curve

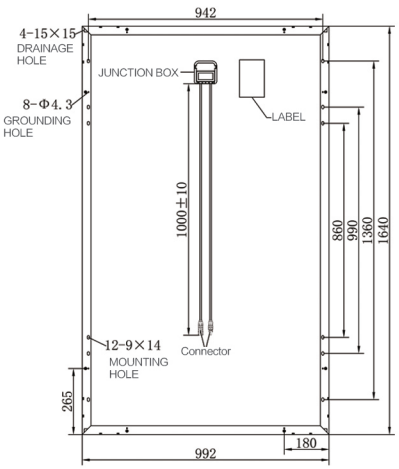
I-V Curve at different irradiation (SPP320M60)

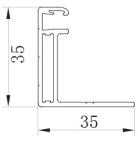


I-V Curve at different temperature (SPP320M60)



Module Size





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