

300-550W

Mono solar module in 182mm cell spec sheet



Module Picture



SP300M-60

Comprehensive Certificates

- IEC61215, IEC61730
- ISO9001:2015 Quality management systems
- ISO45001:Environmental management systems
- ISO45001:2018 Occupational health and safety management systems

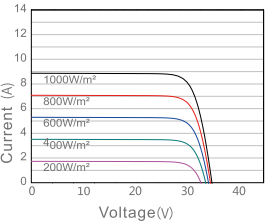


Electrical Parameters at (STC)

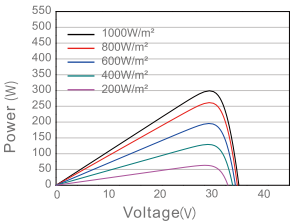
Module	Power (W)	Module Efficiency(%)	Voltage at Pmax(Vmp)	Current at Pmax(Imp)	Open Circuit Voltage(Voc)	Short Circuit Current(Isc)	Power Tolerance(w)
SP300M	300W	20.50%	34.20	8.77	41.04	9.30	±3%

Characteristics

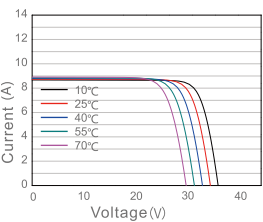
Current Voltage Curve SP300M/60



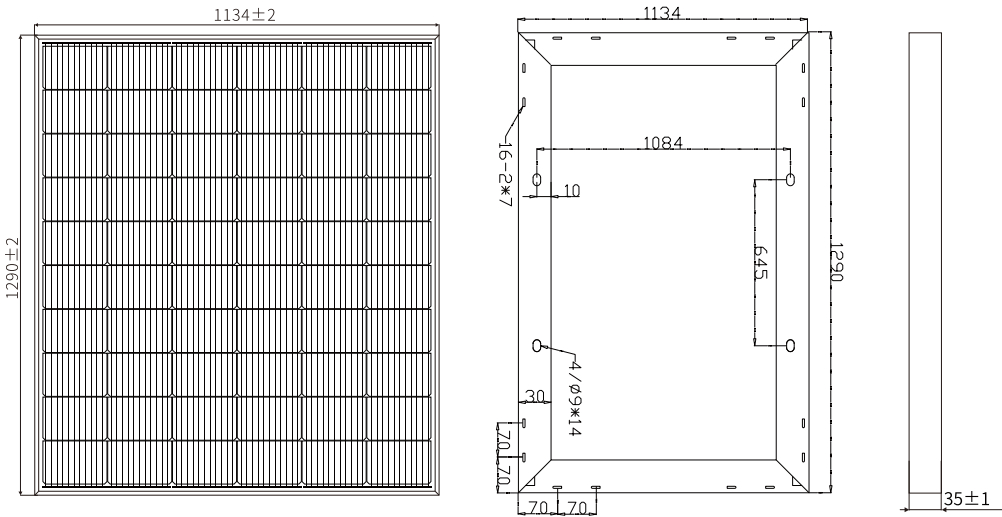
Power Voltage Curve SP300M/60



Current Voltage Curve SP300M/60



Mechanical Diagrams



PS:Frame color and cable length can be customized

Mechanical Parameters		Packing	
Solar Cell(Type/Size)	MONO(182mm)	Module Type	SP300M-60
Solar Cells Number	60Pcs(6x10)	Carton Size	1310x1160x85mm
Dimension	1290x1134x35mm	Number	2Pcs/Ctn
Weight	14.3Kg/Pcs	Weight	29Kg/Ctn
Tempered Glass	3.2 mm High Permeability Coated	Volume	0.129Cbm/Ctn
Frame	Anodized aluminum alloy	20GP Container	444Pcs
Junction Box	IP67、3*bypass diode	40HQ Container	1088Pcs
Cable	4.0mm², (+)1000mm/(-)1000mm		
Connector	Original MC4/Compatible MC4		
Mechanical Load	Front 5400PA/back 2400PA		

STC: Light intensity 1000W/m² Battery temperature: 25°C atmosphere quality=15

NOCT: Light intensity 800W/m² Battery temperature: 20°C atmosphere quality=15 wind velocity 1m/s

Module Picture



SP360M-60

Comprehensive Certificates

- IEC61215, IEC61730
- ISO9001:2015 Quality management systems
- ISO45001:Environmental management systems
- ISO45001:2018 Occupational health and safety management systems

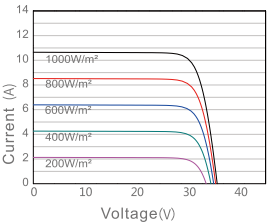


Electrical Parameters at (STC)

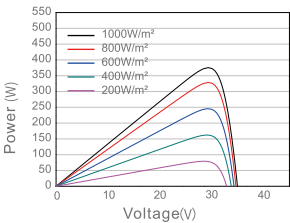
Module	Power (W)	Module Efficiency(%)	Voltage at Pmax(Vmp)	Current at Pmax(Imp)	Open Circuit Voltage(Voc)	Short Circuit Current(Isc)	Power Tolerance(w)
SP360M	360W	20.60%	34.20	10.53A	41.04	11.16	±3%

Characteristics

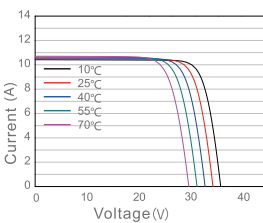
Current Voltage Curve SP360M/60



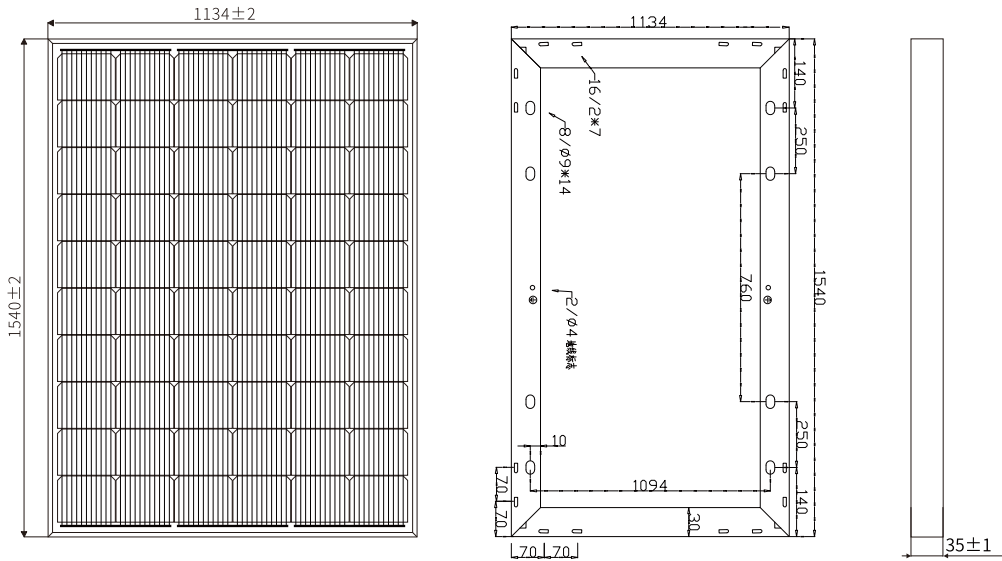
Power Voltage Curve SP360M/60



Current Voltage Curve SP360M/60



Mechanical Diagrams



PS:Frame color and cable length can be customized

Mechanical Parameters		Packing	
Solar Cell(Type/Size)	MONO(182mm)	Module Type	SP360M-60
Solar Cells Number	60Pcs(6x10)	Carton Size	1560x1160x85mm
Dimension	1540x1134x35mm	Number	2Pcs/Ctn
Weight	18.8Kg/Pcs	Weight	38Kg/Ctn
Tempered Glass	3.2 mm High Permeability Coated	Volume	0.153Cbm/Ctn
Frame	Anodized aluminum alloy	20GP Container	386Pcs
Junction Box	IP67、3*bypass diode	40HQ Container	902Pcs
Cable	4.0mm², (+)1000mm/(-)1000mm		
Connector	Original MC4/Compatible MC4		
Mechanical Load	Front 5400PA/back 2400PA		

STC: Light intensity 1000W/m₂ Battery temperature:25°C atmosphere quality=15

NOCT: Light intensity 800W/m₂ Battery temperature:20°C atmosphere quality=15 wind velocity 1m/s

Module Picture



SP400M-54

Comprehensive Certificates

- IEC61215, IEC61730
- ISO9001:2015 Quality management systems
- ISO45001:Environmental management systems
- ISO45001:2018 Occupational health and safety management systems

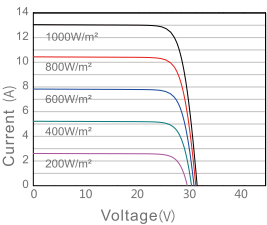


Electrical Parameters at (STC)

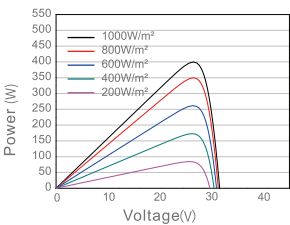
Module	Power (W)	Module Efficiency(%)	Voltage at Pmax(Vmp)	Current at Pmax(Imp)	Open Circuit Voltage(Voc)	Short Circuit Current(Isc)	Power Tolerance(w)
SP400M	400W	20.70%	30.78	13.00	37.02	13.78	±3%

Characteristics

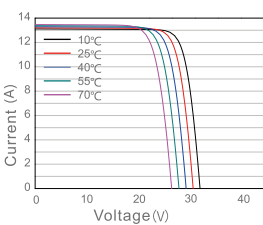
Current Voltage Curve SP400M/32



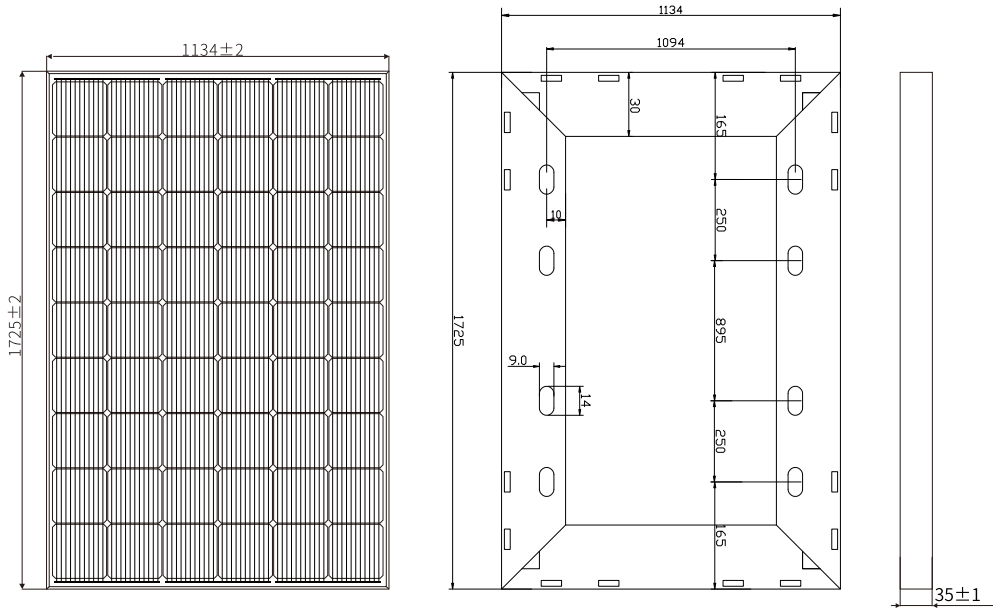
Power Voltage Curve SP400M/32



Current Voltage Curve SP400M/32



Mechanical Diagrams



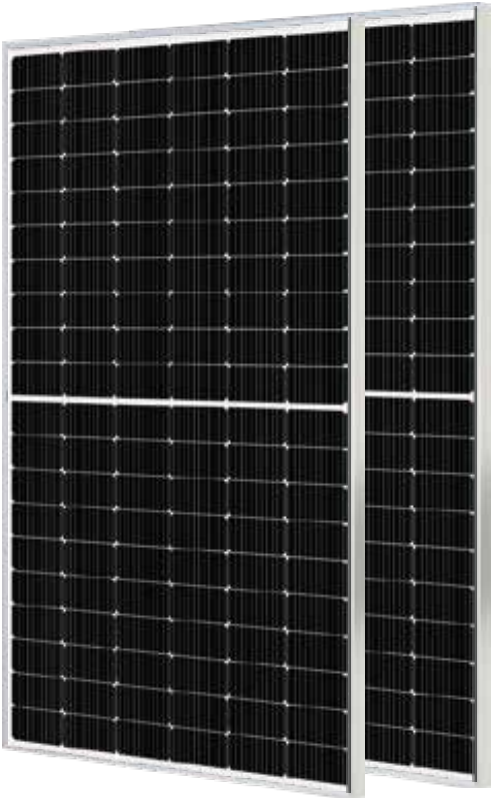
PS:Frame color and cable length can be customized

Mechanical Parameters		Packing	
Solar Cell(Type/Size)	MONO(182mm)	Module Type	SP400M-54
Solar Cells Number	54Pcs(6x9)	Carton Size	1745x1160x85mm
Dimension	1725x1134x35mm	Number	2Pcs/Ctn
Weight	21.3Kg/Pcs	Weight	43Kg/Ctn
Tempered Glass	3.2 mm High Permeability Coated	Volume	0.172Cbm/Ctn
Frame	Anodized aluminum alloy	20GP Container	340Pcs
Junction Box	IP67、3*bypass diode	40HQ Container	810Pcs
Cable	4.0mm², (+)1000mm/(-)1000mm		
Connector	Original MC4/Compatible MC4		
Mechanical Load	Front 5400PA/back 2400PA		

STC: Light intensity 1000W/m₂ Battery temperature:25°C atmosphere quality=15

NOCT: Light intensity 800W/m₂ Battery temperature:20°C atmosphere quality=15 wind velocity 1m/s

Module Picture



MSD450M-120

Mono Half-cut Single/Double Glass Module
430-455/MB Series

INTRODUCTION

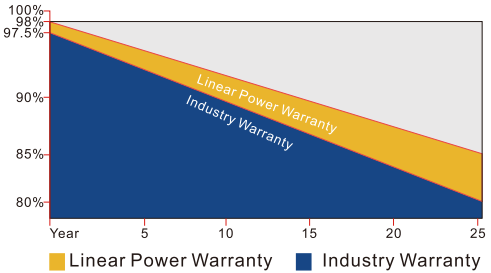
MONO half-cut single / double glass module, assembled with multi-busbar PERC technique and half-cut structure, which can not only absorb the energy from the front of the module, but also absorb the reflected light and the scattered light from the back, offer the advantages of higher power output, reduce shading effect on the energy generation, enhance the mechanical load bearing capacity as well.

LCOE save 6-8%

- ↓6% Saving logistics cost
- ↓7% Saving cable cost
- ↓8% Saving bracket cost
- ↓9% Saving labor cost

First-class Quality Assurance

- 10-year warranty for material and technology
- 25-year linear power output warranty

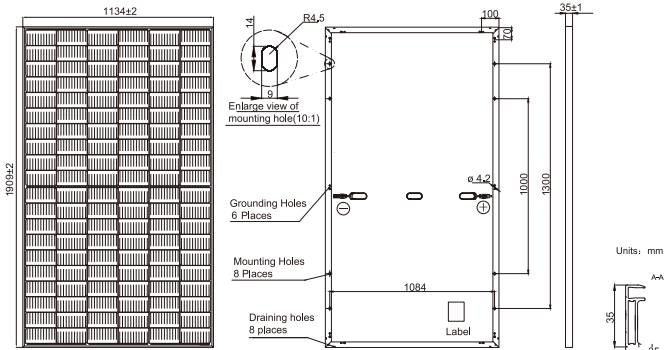


Comprehensive Certificates

- IEC61215, IEC61730
- ISO9001:2015 Quality management systems
- ISO45001: Environmental management systems
- ISO45001:2018 Occupational health and safety management systems



Mechanical Diagrams



PS: Frame color and cable length can be customized

Electrical Parameters at STC

Module Type	MSD430P	MSD435P	MSD440P	MSD445P	MSD450P	MSD455P
Rate Maximum Power(Pmax/W)	430	435	440	445	450	455
Module Efficiency(%)	19.90	20.10	20.30	20.60	20.80	21.10
Open Circuit Volatge(Voc/V)	40.65	40.80	40.95	41.10	41.25	41.40
Short Circuit Current(Isc/A)	13.59	13.67	13.74	13.82	13.89	13.97
Voltage at Pmax(Vmp/V)	33.89	30.09	34.28	34.48	34.67	34.87
Current at Pmax(Imp/A)	12.69	12.77	12.84	12.91	12.98	13.05
Power Tolerance	0~+5w					
Temperature Coefficient of Isc	+0.046%/°C					
Temperature Coefficient of Voc	-0.276%/°C					
Temperature Coefficient of Pmax	-0.350%/°C					
STC	Irradiance 1000W/m² Cell Temperature 25°C AM1.5					

Remark: Electrical data in this catalogue does not refer to a single module, and it's not part of the offer. It only serves for the comparison among different module types.

Electrical Parameters at NOCT

Module Type	MSD430P	MSD435P	MSD440P	MSD445P	MSD450P	MSD455P
Rate Maximum Power(Pmax/W)	327	330	333	336	340	343
Open Circuit Voltage(Voc.V)	38.15	38.28	38.40	38.53	38.65	38.77
Short Circuit Current(Isc/A))	10.91	10.95	10.99	11.03	11.08	11.12
Voltage at Pmax(Vmp/V)	31.89	32.05	32.19	32.35	32.51	32.67
Currernt at Pmax(Imp/A)	10.26	10.30	10.35	10.40	10.46	10.51

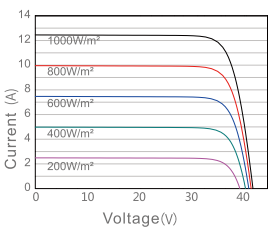
NOCT: Irradiance 800W/m² Ambient Temperature 20°C Wind at 1m/S AM1.5

Operating Conditions

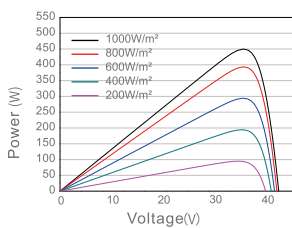
Operating Temperature	-40~+85°C
Maximum System Voltage	1500VDC
NOCT	45±2°C
Fireproof Performance	Glass C
Maximum Series Fuse	25A
Temperature Coefficient of Voc	-0.276%/K
Temperature Coefficient of Isc	+0.046%/K

Characteristics

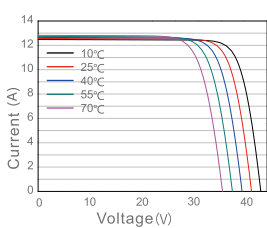
Current Voltage Curve MSD450P



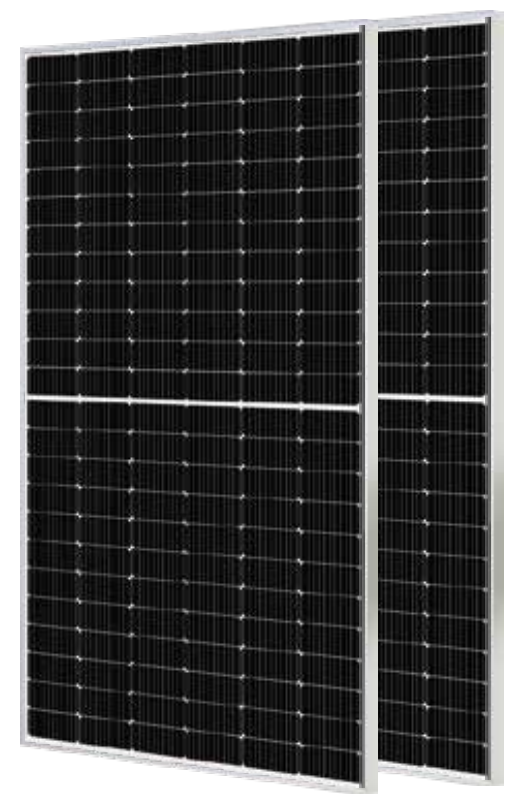
Power Voltage Curve MSD450P



Current Voltage Curve MSD450P



Module Picture



MSD540M-144

Mono Half-cut Single/Double Glass Module

525-550/MB

Series

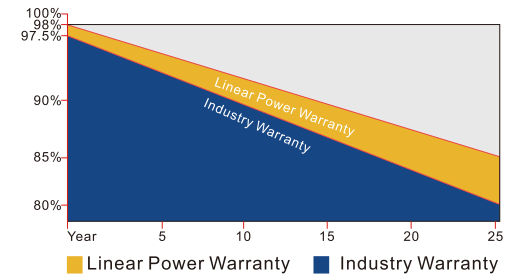
INTRODUCTION
MONO half-cut single / double glass module, assembled with multi-busbar PERC technique and half-cut structure, which can not only absorb the energy from the front of the module, but also absorb the reflected light and the scattered light from the back, offer the advantages of higher power output, reduce shading effect on the energy generation, enhance the mechanical load bearing capacity as well.

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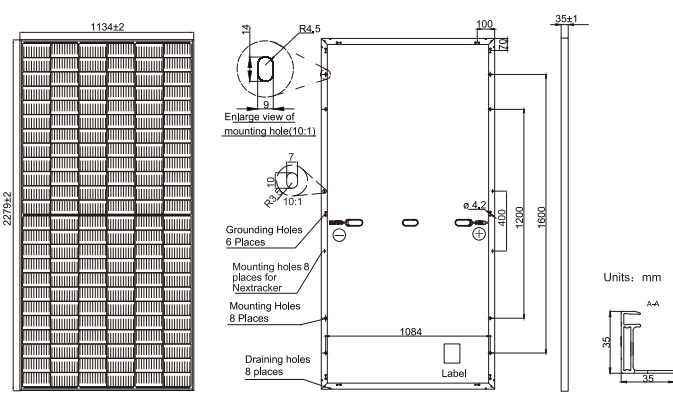


Comprehensive Certificates

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- ISO45001: Environmental management systems
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Mechanical Diagrams



PS: Frame color and cable length can be customized

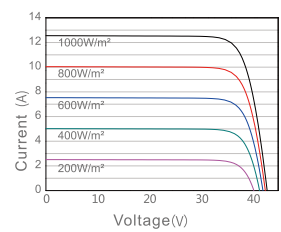
Electrical Parameters at STC						
Module Type	MSD525P	MSD530P	MSD535P	MSD540P	MSD545P	MSD550P
Rate Maximum Power(Pmax/W)	525	530	535	540	545	550
Module Efficiency(%)	20.30	20.50	20.70	20.90	21.10	21.30
Open Circuit Volatge(Voc/V)	48.95	49.15	49.35	49.55	49.75	49.95
Short Circuit Current(Isc/A)	13.67	13.74	13.82	13.89	13.97	14.05
Voltage at Pmax(Vmp/V)	41.10	41.27	41.45	41.62	41.80	41.97
Current at Pmax(Imp/A)	12.78	12.85	12.91	12.98	13.05	13.11
Power Tolerance	0~+5w					
Temperature Coefficient of Isc	+0.046%/°C					
Temperature Coefficient of Voc	-0.276%/°C					
Temperature Coefficient of Pmax	-0.350%/°C					
STC	Irradiance 1000W/m² Cell Temperature 25°C AM1.5					

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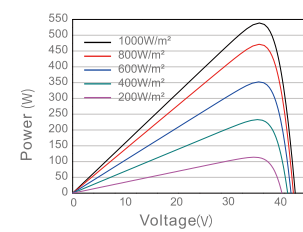
Electrical Parameters at NOCT							Operating Conditions	
Module Type	MSD525P	MSD530P	MSD535P	MSD540P	MSD545P	MSD550P	Operating Temperature	-40~+85°C
Rate Maximum Power(Pmax/W)	396	400	404	407	411	414	Maximum System Voltage	1500VDC
Open Circuit Voltage(Voc/V)	46.00	46.13	46.26	46.38	46.50	46.63	NOCT	45±2°C
Short Circuit Current(Isc/A))	10.95	10.99	11.03	11.08	11.12	11.17	Fireproof Performance	Glass C
Voltage at Pmax(Vmp/V)	38.35	38.55	38.76	38.95	39.16	39.31	Maximum Series Fuse	25A
Currrnt at Pmax(Imp/A)	10.33	10.38	10.43	10.46	10.50	10.53	Temperature Coefficient of Voc	-0.276%/K
NOCT: Irradiance 800W/m² Ambient Temperature 20°C Wind at 1m/S AM1.5							Temperature Coefficient of Isc	+0.046%/K

Characteristics

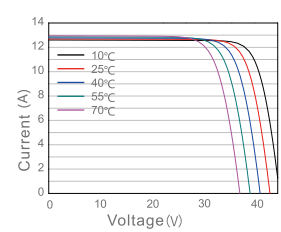
Current Voltage Curve MSD540P



Power Voltage Curve MSD540P



Current Voltage Curve MSD540P





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Contact us:

Company: Shenzhen Puguang Solar Energy Co, Ltd

Address: 4th Flor,Building A3,Xinglian Industrial Park, Pingxing North Road,
PinghuTown,Longgang District, Shenzhen 518112 China.

Phone: +86-755-28720791 Fax: +86-755 85233441 Mobile: +86-13923729619

Website: www.amazon.co.uk/xinpuguang Email: Philip@isolarparts.com