

300-550W

Mono solar module in 182mm cell spec sheet



Module Picture



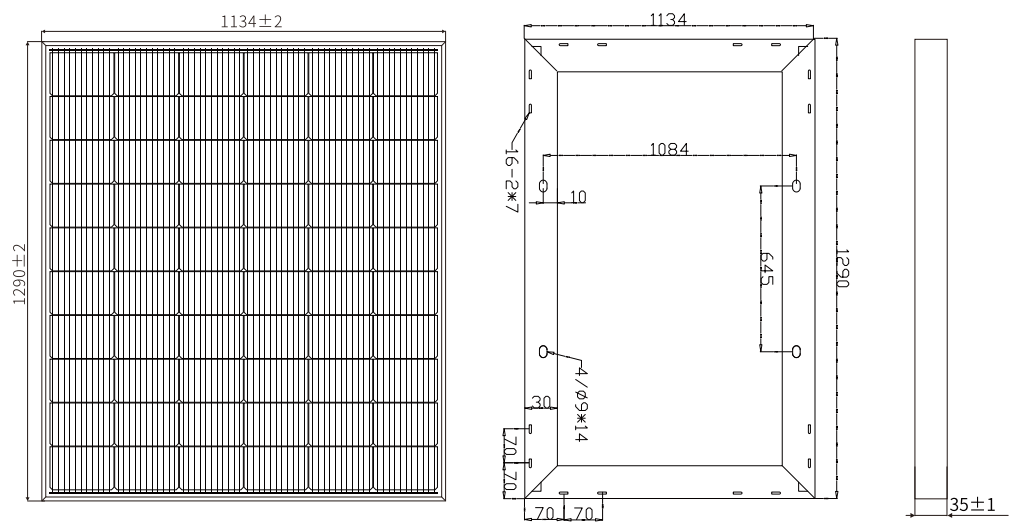
SP300M-60

Comprehensive Certificates

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



Mechanical Diagrams

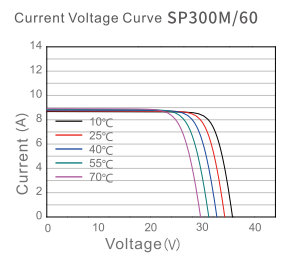
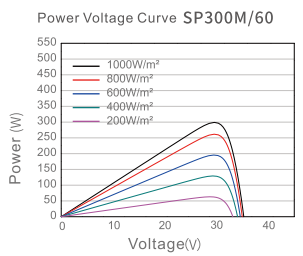
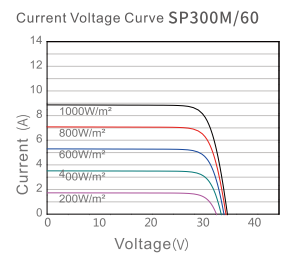


PS: Frame color and cable length can be customized

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



Mechanical Parameters	
Solar Cell(Type/Size)	MONO(182mm)
Solar Cells Number	60Pcs(6x10)
Dimension	1290x1134x35mm
Weight	14.3Kg/Pcs
Tempered Glass	3.2 mm High Permeability Coated
Frame	Anodized aluminum alloy
Junction Box	IP67, 3*bypass diode
Cable	4.0mm², (+)1000mm/(-)1000mm
Connector	Original MC4/Compatible MC4
Mechanical Load	Front 5400PA/back 2400PA

Packing	
Module Type	SP300M-60
Carton Size	1310x1160x85mm
Number	2Pcs/Ctn
Weight	29Kg/Ctn
Volume	0.129Cbm/Ctn
20GP Container	444Pcs
40HQ Container	1088Pcs

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



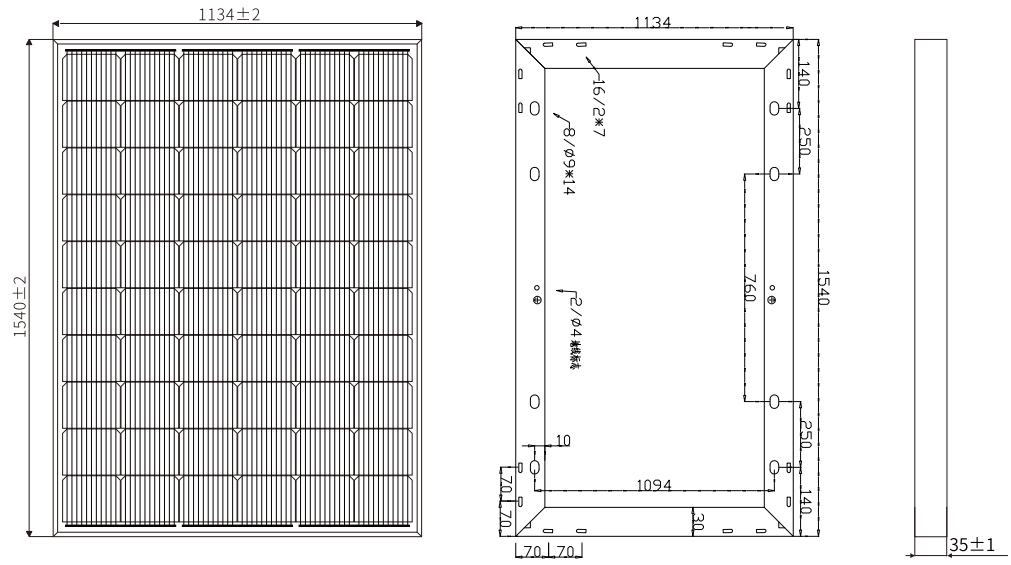
SP360M-60

Comprehensive Certificates

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



Mechanical Diagrams

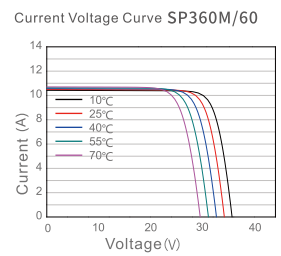
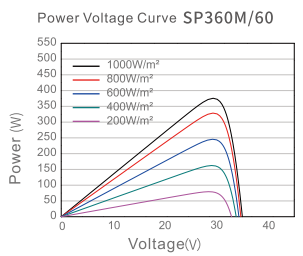
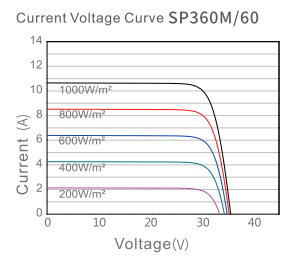


PS: Frame color and cable length can be customized

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



Mechanical Parameters	
Solar Cell(Type/Size)	MONO(182mm)
Solar Cells Number	60Pcs(6x10)
Dimension	1540x1134x35mm
Weight	18.8Kg/Pcs
Tempered Glass	3.2 mm High Permeability Coated
Frame	Anodized aluminum alloy
Junction Box	IP67, 3*bypass diode
Cable	4.0mm², (+)1000mm/(-)1000mm
Connector	Original MC4/Compatible MC4
Mechanical Load	Front 5400PA/back 2400PA

Packing	
Module Type	SP360M-60
Carton Size	1560x1160x85mm
Number	2Pcs/Ctn
Weight	38Kg/Ctn
Volume	0.153Cbm/Ctn
20GP Container	386Pcs
40HQ Container	902Pcs

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



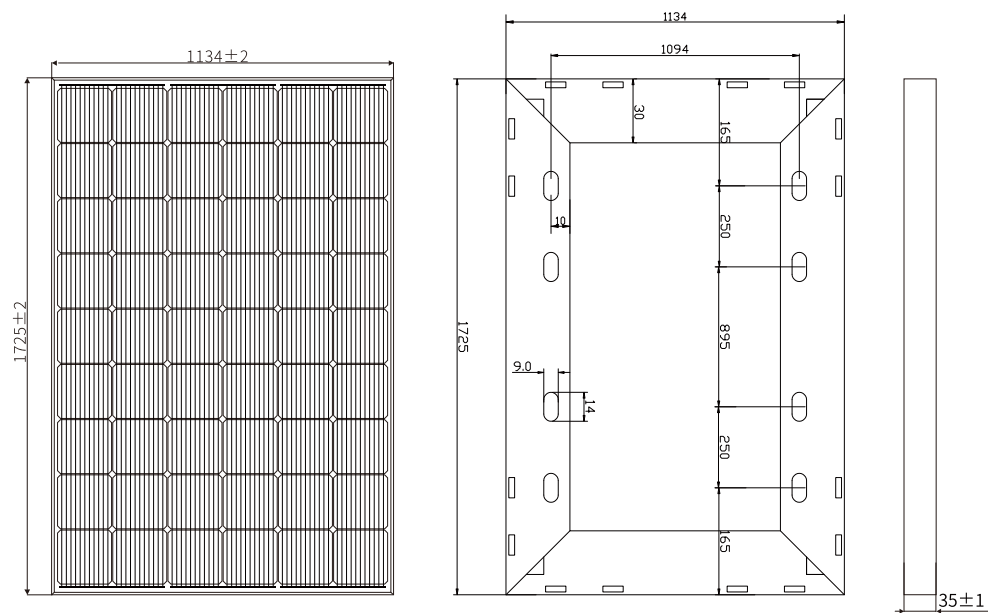
SP400M-54

Comprehensive Certificates

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



Mechanical Diagrams



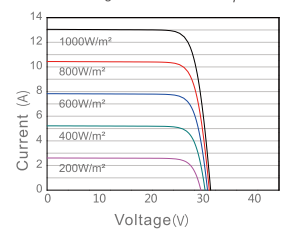
PS: Frame color and cable length can be customized

Electrical Parameters at (STC)

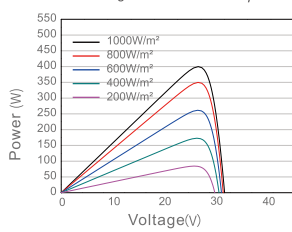
Module	Power (W)	Module Efficiency(%)	Voltage at Pmax(Vmp)	Current at Pmax(Imp)	Open Circuit Voltage(Voc)	Short Circuit Current(Isc)	Power Tolerance(w)
SP400M	400W	20.70%	30.78	13.00	37.02	13.78	±3%

Characteristics

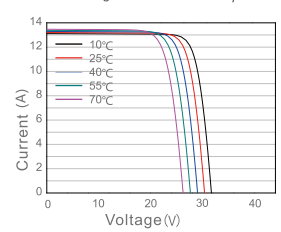
Current Voltage Curve SP400M/32



Power Voltage Curve SP400M/32



Current Voltage Curve SP400M/32



Mechanical Parameters

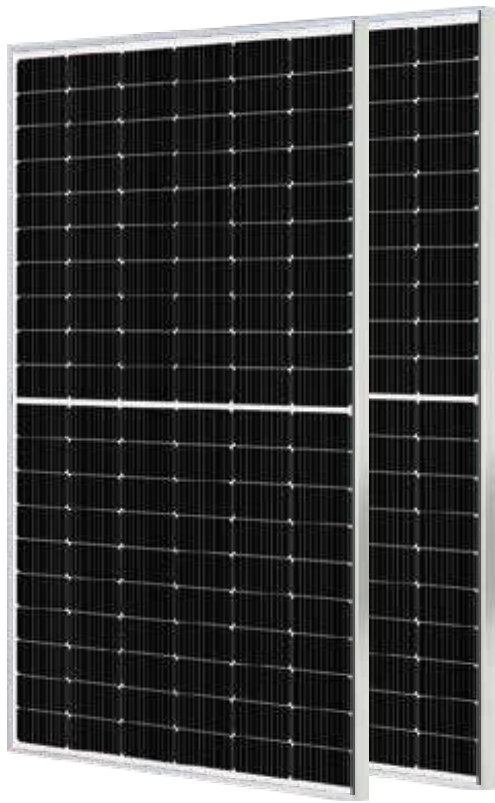
Solar Cell(Type/Size)	MONO(182mm)
Solar Cells Number	54Pcs(6x9)
Dimension	1725x1134x35mm
Weight	21.3Kg/Pcs
Tempered Glass	3.2 mm High Permeability Coated
Frame	Anodized aluminum alloy
Junction Box	IP67, 3*bypass diode
Cable	4.0mm², (+)1000mm/(-)1000mm
Connector	Original MC4/Compatible MC4
Mechanical Load	Front 5400PA/back 2400PA

Packing

Module Type	SP400M-54
Carton Size	1745x1160x85mm
Number	2Pcs/Ctn
Weight	43Kg/Ctn
Volume	0.172Cbm/Ctn
20GP Container	340Pcs
40HQ Container	810Pcs

- 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

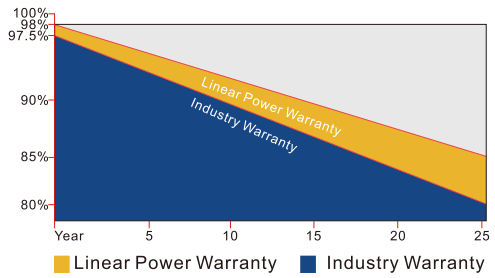
MONO half-cut single / double glass module, assembled with multi-busbar PERC technique and half-cut structure, which can not only absorb the energy from the front of the module, but also absorb the reflected light and the scattered light from the back, offer the advantages of higher power output, reduce 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

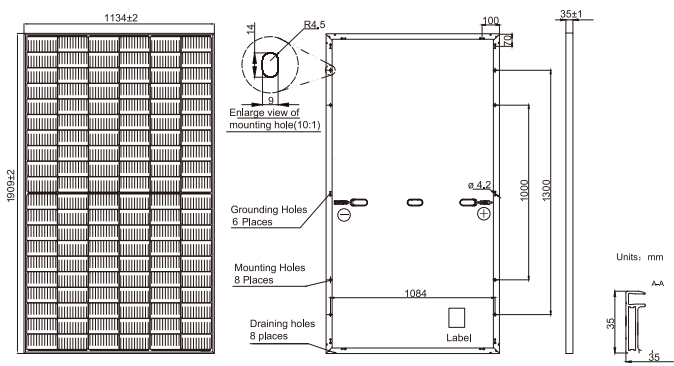


Comprehensive Certificates

- 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

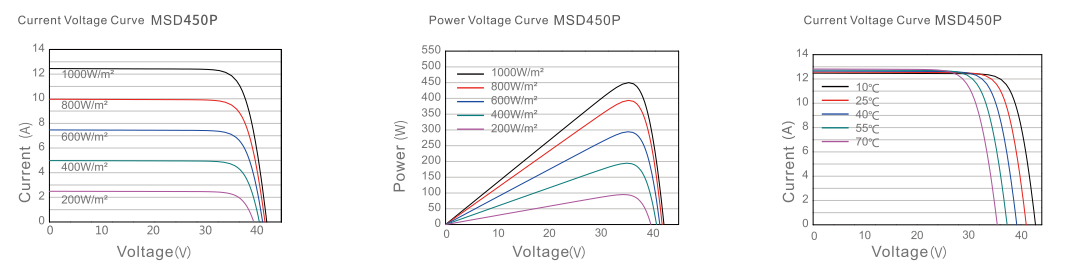
Remark: Electrical data in this catalogue does not refer to a single module, and it's not part of the offer. It only serves for the comparison among different module types.

Electrical Parameters at NOCT

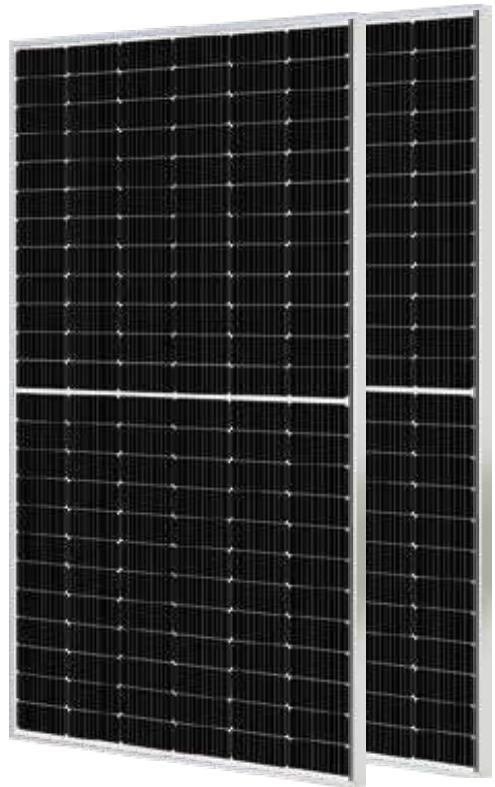
Module Type	MSD430P	MSD435P	MSD440P	MSD445P	MSD450P	MSD455P	Operating Conditions
Rate Maximum Power(Pmax/W)	327	330	333	336	340	343	Operating Temperature -40~+85°C
Open Circuit Voltage(Voc.V)	38.15	38.28	38.40	38.53	38.65	38.77	Maximum System Voltage 1500VDC
Short Circuit Current(Isc/A)	10.91	10.95	10.99	11.03	11.08	11.12	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

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

Characteristics



Module Picture



MSD540M-144

Mono Half-cut Single/Double Glass Module

525-550/MB Series

INTRODUCTION

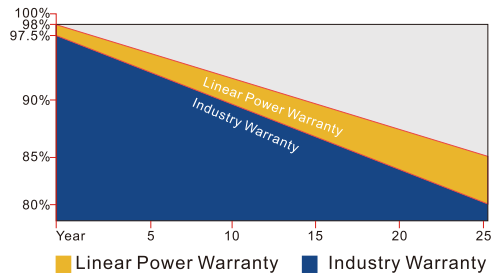
MONO half-cut single / double glass module, assembled with multi-busbar PERC technique and half-cut structure, which can not only absorb the energy from the front of the module, but also absorb the reflected light and the scattered light from the back, offer the advantages of higher power output, reduce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

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

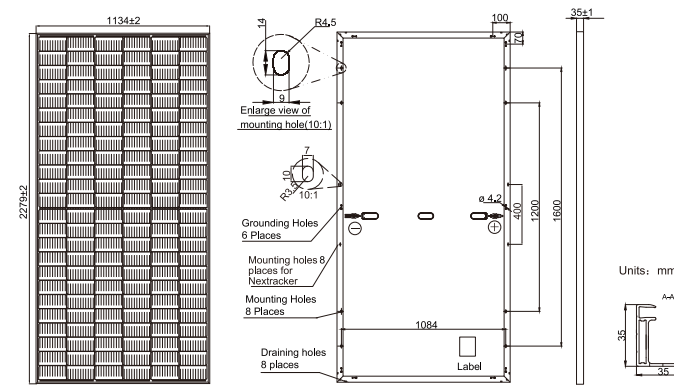


Comprehensive Certificates

- 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	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

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	MSD525P	MSD530P	MSD535P	MSD540P	MSD545P	MSD550P
Rate Maximum Power(Pmax/W)	396	400	404	407	411	414
Open Circuit Voltage(Voc.V)	46.00	46.13	46.26	46.38	46.50	46.63
Short Circuit Current(Isc/A)	10.95	10.99	11.03	11.08	11.12	11.17
Voltage at Pmax(Vmp/V)	38.35	38.55	38.76	38.95	39.16	39.31
Current at Pmax(Imp/A)	10.33	10.38	10.43	10.46	10.50	10.53

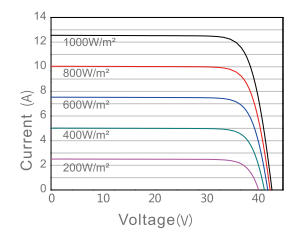
NOCT: Irradiance 800W/m² Ambient Temperature 20°C Wind at 1m/S AM1.5

Operating Conditions

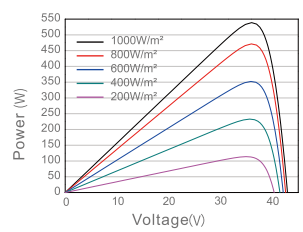
Operating Temperature	-40~+85°C
Maximum System Voltage	1500VDC
NOCT	45±2°C
Fireproof Performance	Glass C
Maximum Series Fuse	25A
Temperature Coefficient of Voc	-0.276%/K
Temperature Coefficient of Isc	+0.046%/K

Characteristics

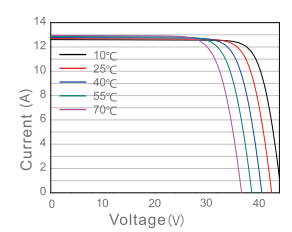
Current Voltage Curve MSD540P



Power Voltage Curve MSD540P



Current Voltage Curve MSD540P



“Mission:

**Absorbing Sunshine
Focusing Energy**

Returning the earth to a clean place ”

SOLARParts®
For Consumable Energies

Company: Shenzhen Solarparts Inc.

Shenzhen Puguang Solar Energy Co.,Ltd.

Address: the 4th Floor, A3 Building Xinlian Industrial
Park, Ping Xin North Road Pinghu Town
Shenzhen 518112 China.

Email address: info@isolarparts.com
Homepage: www.isolarparts.com