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**Web: [EnergyPal.com/solar](http://EnergyPal.com/solar)**

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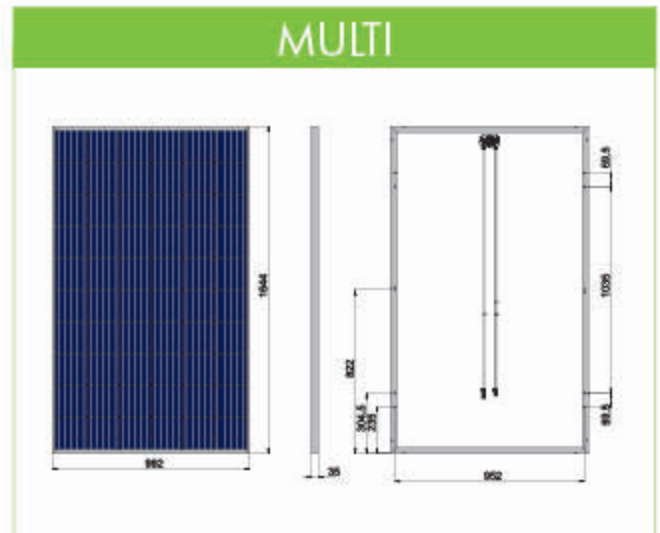
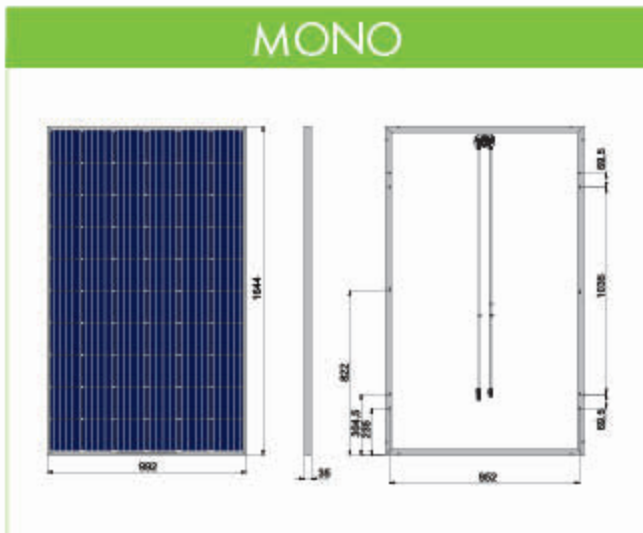
**Email: [contact@energypal.com](mailto:contact@energypal.com)**

# **EnergyPal**

## **Solar Panel Guide Specification Data Sheet**

**Shinsung E&G Co., Ltd.  
SS-BM 290-300 Series  
SS-BM290**

Also available on the web at  
[EnergyPal.com/shinsung-e-g-co-ltd-solar-panels/ss-bm290](http://EnergyPal.com/shinsung-e-g-co-ltd-solar-panels/ss-bm290)



Item	SS-BM290	SS-BM295	SS-BM300
Peak Power(Wp)	290	295	300
Open Circuit Voltage(V)	38.74	38.92	39.10
Short Circuit Current(A)	9.90	9.97	10.04
Voltage at Pmax(V)	30.90	31.07	31.29
Current at Pmax(A)	9.43	9.51	9.59
Efficiency(%)	17.78	18.09	18.40
Dimension(mm)	992 X 1,644 X 35		
Weight(Kg)	18.4±0.1		

Item	SS-BP260	SS-BP265	SS-BP270
Peak Power(Wp)	260	265	270
Open Circuit Voltage(V)	37.84	38.08	38.32
Short Circuit Current(A)	9.17	9.24	9.33
Voltage at Pmax(V)	29.96	30.13	30.47
Current at Pmax(A)	8.74	8.82	8.90
Efficiency(%)	15.94	16.25	16.56
Dimension(mm)	992 X 1,644 X 35		
Weight(Kg)	18.4±0.1		

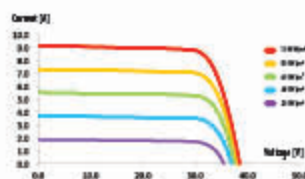
※ All data is tested under STC(Standard Test Conditions). Above data may be changed without prior notice.  
 ※ Peak power tolerance 0~+3.0%

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 ※ Peak power tolerance 0~+3.0%

• Temperature Coefficient (Cell)

NOCT	45±3(°C)
$\alpha \Delta$ ISC	0.0476(%/degree)
$\beta \Delta$ VOC	-0.3070(%/degree)
$\gamma \Delta$ Pmax	-0.3753(%/degree)

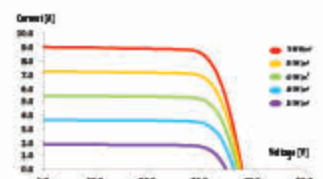
• I-V Curve



• Temperature Coefficient (Cell)

NOCT	45±3(°C)
$\alpha \Delta$ ISC	0.049(%/degree)
$\beta \Delta$ VOC	-0.333(%/degree)
$\gamma \Delta$ Pmax	-0.42(%/degree)

• I-V Curve



• Mechanical Characteristics

Solar Cells	156.75 x 156.75mm
Front Glass	Low Iron Tempered Glass
Junction Box	JM13D: IP67 / 3Bypass Diode
Output Cable	4mm <sup>2</sup> Cable, MC 4(Compatible) Type
Frame	AL Alloy Type(Anodized)

• Tested Operation Conditions

Max Load	Mono: 550kgf/m <sup>2</sup> (5400Pa) Multi: 734kgf/m <sup>2</sup> (7200Pa)
Impact Resistance	25mm, 23m/s
Operating emperature	-40~+85°C
System Voltage	1,000V

• Safety Ratings & Warranties

Fire Safety Classification	Class "C"
Application classes	Class "A"
Salt-mist Corrosion Test	Tested
Visible Light Reflected	Mono (~ 5.00%), Multi(~ 5.00%) For more information, please contact us.
Warranty	10 Years limited Product Warranty 10 Years limited Power Warranty : 90% 25 Years limited Power Warranty : 80%
Certifications	IEC 61215 / IEC 61730