

Protect The Earth, Protect The Human



650~670W

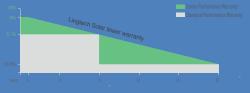
mono shingled solar module

LINGTECH SOLAR

Founded in 2009, as a superior photovoltaic manufacturer, is devoted to the R&D and the production of crystalline silicon solar cells and modules for 14 years.

PERFORMANCE WARRANTY

- Enhanced Product Warranty on Materials and Work man ship
- 25 Linear Power Performance Warranty
- Annual Degradation Over 25 years no more than 0.55%



*According to the applicable Lingtech Limited Warranty Statement.

MANAGEMENT SYSTEM

SO 9001:2015 / Quality management system

SO 14001:2015 / Standards for environmental

ISO 45001: 2018 / International standards for

PRODUCT CERTIFICATES

IFC 61215 / IFC 61730 / CF





THE IDEAL SOLUTION FOR:

Ground-mounted solar power plants and commercial roof

Shingled Technology

Innovative structure, low -temperature adhesive bonding, high-density layout

Beautiful Apperance

Uniform layout, better aesthetic

Superior safety and Reliability

No hidden welding crack, low operating temerature, high pressure resistance

Low System Cost

High module efficiency, reducing system cost

Low Shading Loss

Full parallel arrangement brings high effective power generation hours

SPECIFICATIONS

Module Type		650W		655W		660W		665W		670W	
		STC	NMOT								
Maximum Power	(Pmax/W)	650	489	655	493	660	497	665	501	670	504
Operating Voltage	(Vmpp/V)	38.7	36.9	38.8	37.0	38.9	37.1	39.0	37.2	39.1	37.3
Operating Current	(Impp/A)	16.8	13.25	16.86	13.32	16.95	13.39	17.05	13.46	17.14	13.54
Open-Circuit Voltage	(Voc/V)	46.7	44.3	46.8	44.5	46.9	44.7	47.0	44.8	47.1	44.9
Short-Circuit Current	(Isc/A)	17.84	14.36	17.94	14.45	18.04	14.53	18.14	14.61	18.23	14.69
Module Efficiency	ηm(%)	21	.0	21	.1	21.	.2	21	.4	2	1.6

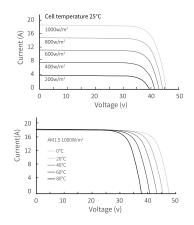
STC: Irradiance 1000W/m , Cell Temperature 25°C, Air Mass AM1.5 MMOT: Irradiance at 800W/m , Ambient Temperatue 20°C, Air Mass AM1.5, Wind Speed 1m/s

Electrical characteristics with different rear side power gain (refer to 670W front)

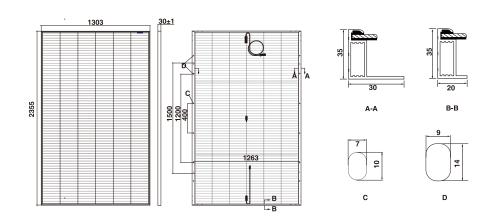
Pmax gain	Pmax/W	Vmpp/V	Impp/A	Voc/V	Isc/A
5%	683	38.2	17.80	46.1	18.93
10%	715	38.2	18.65	46.1	19.84
15%	748	38.2	19.49	46.1	20.74
20%	780	38.2	20.34	46.2	21.64
25%	813	38.2	21.19	46.2	22.54

I-V CURVE

BSM670G12-66HBD



ENGINEERING DRAWINGS



MECHANICAL SPECIFICATION

Cell Type	Monocrystalline
Cell Dimensions	210*210mm
Cell Arrangement	144 (6*24)
Weight	38.5kg
Module Dimensions	2355*1303*35mm
Cable Length	Portrait 300mm/Landscape 1200mm/Customized
Cable Cross Section Size	TUV: 4mm²(0.006inches²)/UL: 12AWG
Front Glass	2.0 mm (0.08 inches) AR Coating Tempered Glass
Back Glass	2.0mm (0.08 inches) Glazed Semi-tempered Glass
No. of Bypass Diodes	3
Packing Configuration	31pcs/carton, 558pcs/40hq
Frame	Anodized Aluminium Alloy
Junction Box	IP68

*Data contained in these specifications is subject to change without notice. Lingtech Solar reserves the right to final interpretation of content.

OPERATING CONDITIONS

Maximun System Voltage	1500V/DC(IEC)
Operating Temperature	-40°C~ +85°C
Maximun Series Fuse	30A
Static Loading	Snow Loading: 5400Pa/ Wind Loading: 2400Pa
Conductivity at Ground	≤0.1Ω
Safety Class	II
Resistance	≥100MΩ
Connector	T01/LJQ-3-CSY/MC4/MC4-EVO2
Backside Output Ratio*	70%±5%
*Under STC: Backside Ouput Ratio= F	may(rear) /P may(front)

TEMPERATURE COFFFICIENT

TEMI ENATURE COLLITICIENT				
Temperature Coefficient Pmax	-0.35%/°C			
Temperature Coefficient Voc	-0.26%/°C			
Temperature Coefficient Isc	+0.048%/°C			
NMOT	43±2°C			