

JUPITER GSP7F60M [440-460W]

Single Glass 10BB Half-cut Mono Perc

IEC 61215 / IEC 61730 / UL 61730

ISO9001: 2015: Quality Management System

ISO14001:2015: Environment Management System

ISO45001:2018: Occupational Health And Safety Management System



KEY FEATURES



10BB Half-cut Cell Technology

New circuit design, lower internal current, lower Rs loss dopped wafer



Significantly Lower The Risk Of Hot Spot

Special circuit design with much lower hot spot temperature



PID Resistance

Excellent Anti-PID performance guarantee via optimized mass-production process and materials control



Enhanced Mechanical Load

Certified to withstand: wind load (2400 Pascal) and snowload(5400 Pascal)



IP68 Junction Box

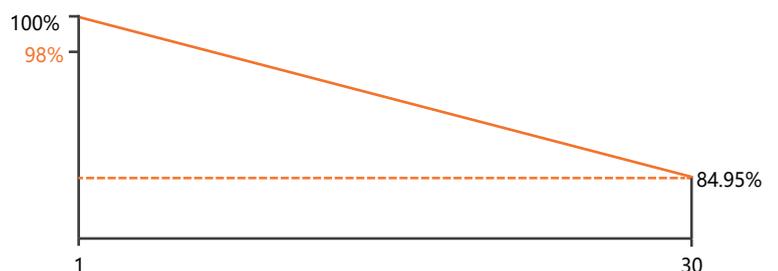
High waterproofing level

Guaranteed Power Performance

25 Years Product Warranty

30 Years Linear Power Warranty

0.45% Annual Degradation Over 30 Years



As different markets have different certification requirements, please consult our G-Star sales group to obtain the corresponding certification for the local market. If any special requirements are needed for the specific installing environment, please feel free to contact G-star technical support department anytime.

GSP7F60M

440-460W

Single Glass 10BB Half-cut Mono Perc

Weight

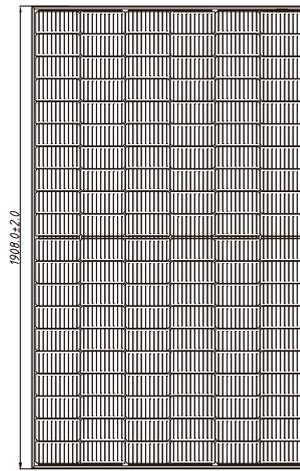
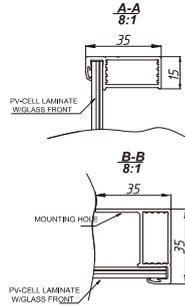
24.3kg

Dimensions

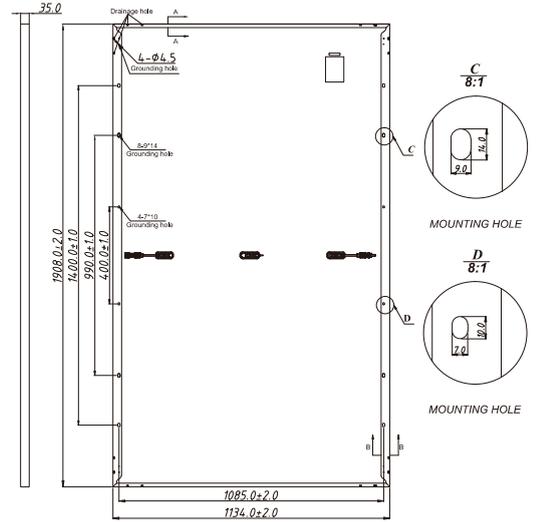
1908*1134*35mm

Packaging

31pcs/pallet,744pcs/ 40'HQ Container
744pcs/ 40'HQ Container(USA)



Front



Side

Back

OPERATING CONDITIONS

Operating Temperature	-40°C~+85°C
Maximum System Voltage	1500V/DC(IEC)
Maximum Series Fuse Rating	25A
Power Tolerance	0~+3%
Safety Protection Class	Class II
Temperature Coefficients Of Pmax	-0.35%/°C
Temperature Coefficients Of Voc	-0.26%/°C
Temperature Coefficients Of Isc	+0.048%/°C
Nominal Module Operating Temperature (NMOT)	43±2°C

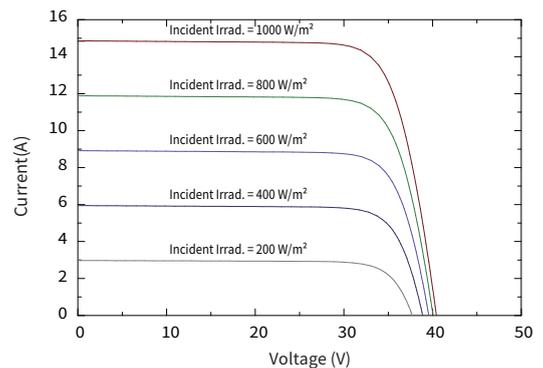
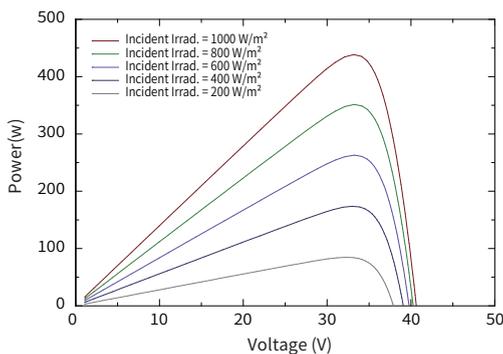
MECHANICAL CHARACTERISTICS

Cell Type	Monocrystalline 182*91 mm
No. Of Cells	120pcs in series (6x20)
Front Glass	3.2mm Coated Tempered Glass
Backsheet	Color:White
Frame	Anodized Aluminium Alloy
Junction Box	IP68,3 Bypass Diodes
Output Cables	300mm in length or Customized Length
Connectors	MC4/MC4-EVO2
Mechanical Load	5400Pa(Front)/2400Pa(Back)

ELECTRICAL PARAMETERS AT STC & NMOT

Testing Condition	GSP7F60M-440W		GSP7F60M-445W		GSP7F60M-450W		GSP7F60M-455W		GSP7F60M-460W	
	STC	NMOT								
Maximum Power(Pmax)	440Wp	328Wp	445Wp	332Wp	450Wp	336Wp	455Wp	339Wp	460Wp	343Wp
Maximum Power Voltage (Vmpp)	34.35V	32.10V	34.53V	32.20V	34.70V	32.40V	34.87V	32.60V	35.04V	32.70V
Maximum Power Current (Impp)	12.81A	10.23A	12.89A	10.30A	12.97A	10.36A	13.05A	10.42A	13.13A	10.49A
Open-Circuit Voltage (Voc)	40.99V	38.60V	41.16V	38.70V	41.33V	38.90V	41.50V	39.10V	41.67V	39.20V
Short-Circuit Current (Isc)	13.69A	11.04A	13.78A	11.11A	13.86A	11.17A	13.94A	11.24A	14.02A	11.30A
Module Efficiency STC (%)	20.34%		20.57%		20.80%		21.03%		21.26%	

IV-CURVE



E-mail: info@gstar-solar.com
Website: www.gstarsolar.com



*STC: Irradiance 1000W/m²
NMOT: Irradiance 800W/m²



Cell Temperature 25°C
Ambient Temperature 20°C



AM=1.5
AM=1.5



Wind Speed 1m/s
Wind Speed 1m/s

Due to ongoing innovation, R&D enhancement, the specification and key features described in this datasheet may deviate slightly and are not guaranteed. G-Star reserves the right to make any adjustment to the information described herein at any time without notice. Please always obtain the most recent version of the datasheet which shall be duly incorporated into the binding contract made by the parties governing all transactions related to the purchase and sale of the products described herein.