

# EPOCH

# JUPITER

## GSP7F60M-460W

10BB Half-cut Mono Perc



### SYSTEM & PRODUCT CERTIFICATES

- IEC 61215 / IEC 61730 / UL 61730
- ISO 9001: 2015 Quality Management System
- ISO 14001: 2015 Environment Management System
- ISO 45001: 2018 Occupational Health and Safety Management Systems

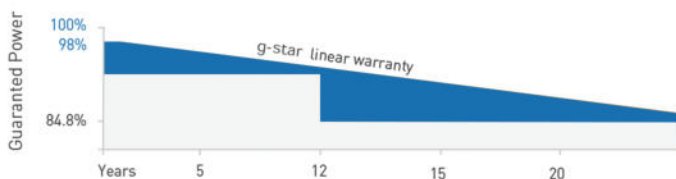


### PERFORMANCE WARRANTY

12 Years  
Quality Assurance

30 Years  
Power Output Guarantee

■ Linear Performance Warranty  
■ Standard Performance Warranty



### KEY FEATURES



#### 10BB Half-cut Cell Technology

New circuit design, lower internal current, lower  $R_s$  loss  
Ga doped wafer, attenuation  $< 2\%$  (1st year) /  $\leq 0.55\%$  (Linear)



#### Significantly Lower the Risk of Hot Spot

Special circuit design with much lower hot spot temperature



#### Lower LCOE

2% more power generation, lower



PID  
Anti

#### Excellent Anti-PID Performance

2 times of industry standard Anti-PID test



#### IP68 Junction Box

High waterproof level

# Electrical Characteristics

Testing Condition	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum Power(Pmax/W)	440	328	445	332	450	336	455	339	460	343
Operating Voltage (Vmpp/V)	34.35	32.1	34.53	32.2	34.70	32.4	34.87	32.6	35.04	32.7
Operating Current (Impp/A)	12.81	10.23	12.89	10.30	12.97	10.36	13.05	10.42	13.13	10.49
Open-Circuit Voltage(Voc/V)	40.99	38.6	41.16	38.7	41.33	38.9	41.50	39.1	41.67	39.2
Short-Circuit Current(Isc/A)	13.69	11.04	13.78	11.11	13.86	11.17	13.94	11.24	14.02	11.30
Module Efficiency(%)	20.30		20.60		20.80		21.10		21.30	

# Mechanical Characteristics

Solar Cell	Monocrystalline Silicon(10Busbar)
No. of Cells	120pcs in series (6*20)
Module Dimension	1909*1134*35mm(75.12*44.65*1.38inches)
Weight	24.3kg(53.6lbs.)
Front Glass	3.2mm Coated Tempered Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP68,3 Bypass Diodes
Output Cables	4mm <sup>2</sup> (IEC).12AWG(UL)300mm in Length or Customized Length
Connectors	MC4/MC4-EVO2

# Mechanical Characteristics

Pieces Per Pallet	31	31(USA)
Pieces Per Container(40' HQ)	744	744

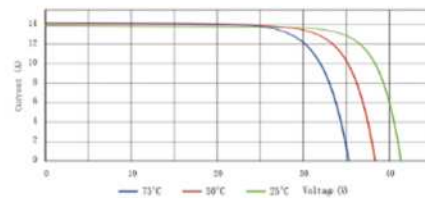
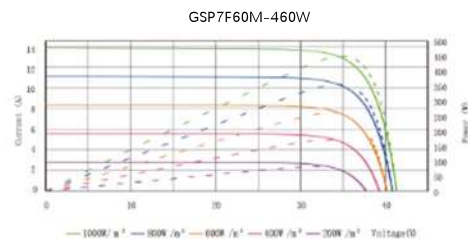
# Application Conditions

Maximun System Voltage	1000V/1500V/DC(IEC)
Operating Temperature	-40° C+85° C
Maximun Series Fuse	25A
Safety Protection Class	Class II
Mechanical Load (Front side]	5400Pa
Mechanical Load (Back side)]	2400Pa

# Temperature Characteristics

Temperature Coefficient of Pmax	-0.35%/° C
Temperature Coefficient of Isc	-0.26%/° C
Temperature Coefficient of Voc	+0.048%/° C
Nominal Module OperatingTemperature(NMOT)	43±2° C

# I-V Curve



# Technical Drawings

