



# 440-460W

G7P60BTB | 120-cell

Bifacial Module with  
Transparent Backsheet  
10BB Half-cut Mono Perc



Product  
Warranty



Power  
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)



### Lower LCOE

2% more power generation, lower LCOE



### IP68 Junction Box

High waterproof level



### Significantly Lower the Risk of Hot Spot

Special circuit design with much lower hot spot temperature



### Excellent Anti-PID Performance

2 times of industry standard Anti-PID test



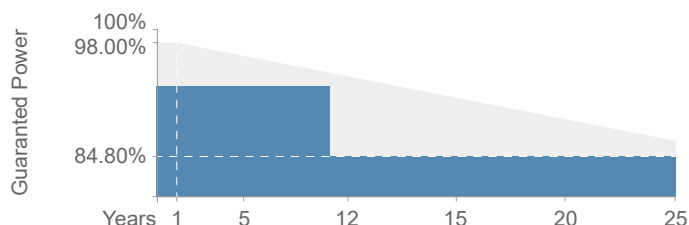
## INTRODUCTION

### 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 Product Warranty    25 Years Linear Power Warranty



**460W**

Output

**21.30%**

Efficiency

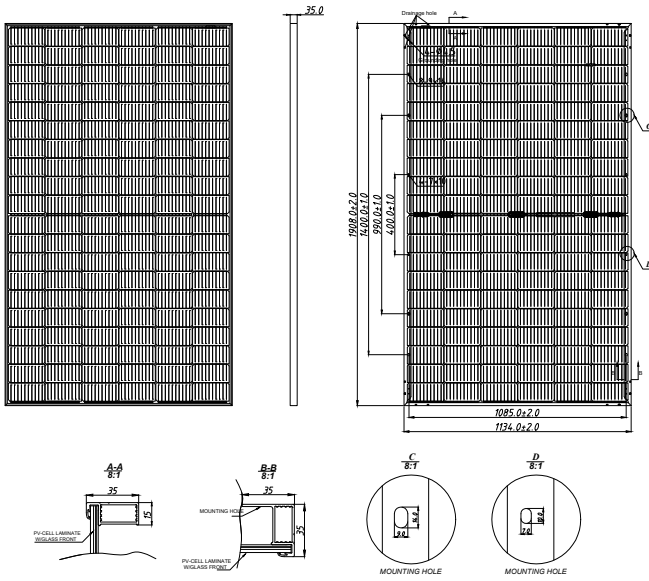
**≤2%**

First Year Degradation

**≤0.55%**

Year 2-25 Power Degradation

**TECHNICAL DRAWING**



**Mechanical Characteristics**

Cell Type	P-Type Perc 182 Cell (10 BusBar)
Number of Cells	120(6×20)
Dimensions	1908×1134×35mm
Weight	24.3kg
Front Glass	3.2mm AR Coating Tempered Glass
Frame	Anodized Aluminum Alloy
Output Cables	4mm <sup>2</sup> (IEC), 12AWG(UL) 300mm in Length or Customized Length
Junction Box	IP68, 3 Bypass Diodes
Connector	T01/LJQ-3-CSY/MC4/MC4-EVO2
Packaging	31 Pieces/Pallet, 744 Pieces/40' container

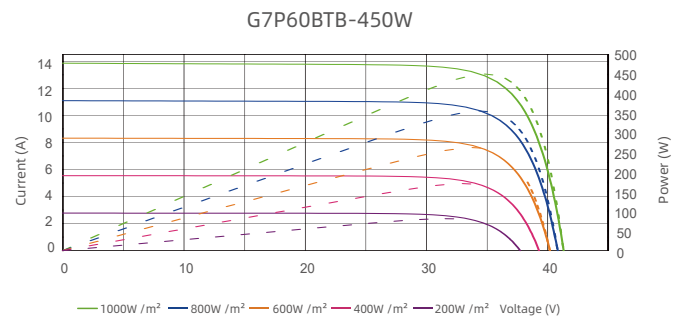
**Electrical Characteristics (STC: AM1.5 1000W/m<sup>2</sup> 25°C NOCT: AM1.5 800W/m<sup>2</sup> 20°C 1m/s)**

Model	G7P60BTB-440W		G7P60BTB-445W		G7P60BTB-450W		G7P60BTB-455W		G7P60BTB-460W	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Testing Condition	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax/W)	440	328	445	332	450	336	455	339	460	343
Operating Voltage (Vmpp/V)	34.35	32.10	34.53	32.20	34.70	32.40	34.87	32.60	35.04	32.70
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	38.60	41.16	38.70	41.33	38.90	41.50	39.10	41.67	39.20
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
Modules Efficiency (%)	20.30		20.60		20.80		21.00		21.30	

**Bifacial Output-Rearside Power Gain (440W)**

Power Gain	5%	10%	15%	20%	25%
Maximum Power (Pmax)[W]	467	490	512	534	556
Open-Circuit Voltage (Voc)[V]	41.16	41.16	41.16	41.16	41.16
Maximum Power Voltage (Vmp) [V]	34.53	34.53	34.53	34.53	34.53
Short-Circuit Current (Isc)[A]	14.47	15.16	15.85	16.54	17.23
Maximum Power Current (Imp) [A]	13.53	14.18	14.82	15.47	16.11

**I-V Characteristics**



**Operating Conditions**

Maximum System Voltage	1000/1500V/DC
Operating Temperature	-40°C~+85°C
Maximum Series Fuse Rating	30A
Mechanical Load Front Side	5400Pa
Mechanical Load Back Side	2400Pa
Nominal operating cell temperature	43±2°C
Bifaciality	70%+5%/-10%

