



440-460W

G7P60B | 120-cell

Bifacial Dual Glass

10BB Half-cut Mono Perc



KEY FEATURES



10BB Half-cut Cell Technology

New circuit design, lower internal current, lower R_s loss Ga doped wafer, attenuation $< 2\%$ (1st year) / $\leq 0.45\%$ (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



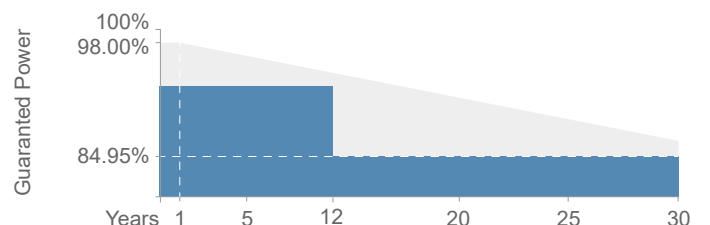
INTRODUCTION

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 30 Years Linear Power Warranty



460W

Output

21.20%

Efficiency

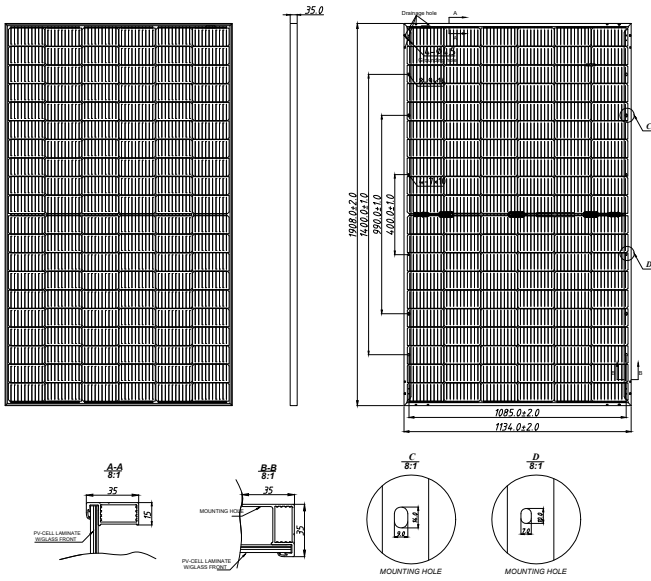
≤2%

First Year Degradation

≤0.45%

Year 2-30 Power Degradation

TECHNICAL DRAWING



Mechanical Characteristics

Cell Type	P-Type Perc 182 Cell (10 BusBar)
Number of Cells	120(6×20)
Dimensions	1914×1134×35mm
Weight	26.8kg
Front Glass	2.0mm AR Coating Semi-tempered Glass
Back Glass	2.0mm Glazed Semi-tempered Glass
Frame	Anodized Aluminum Alloy
Output Cables	4mm ² (IEC), 12AWG(UL) 300mm in Length or Customized Length
Junction Box	IP68, 3 Bypass Diodes
Connector	T01/LJQ-3-CSY/MC4/MC4-EVO2
Packaging	31Pieces/Pallet, 744/682(UAS) Pieces/40' container

Electrical Characteristics (STC: AM1.5 1000W/m² 25°C NOCT: AM1.5 800W/m² 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										
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		20.50		20.70		21.00		21.20	

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

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%

I-V Characteristics

