



390-410W

G7P54MBW | 108-cell

Mono-facial Full Black with White Backsheet
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) / $\leq 0.55\%$ (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



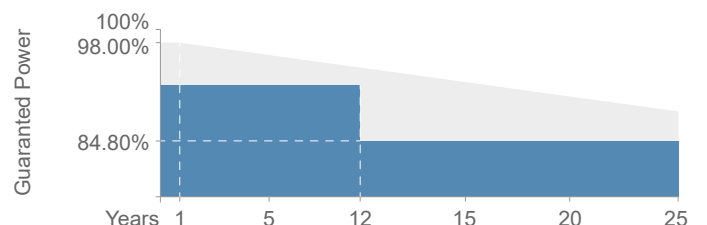
INTRODUCTION

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



Andes-G7P54MBW 390-410W

410W

Output

21.00%

Efficiency

≤2%

First Year Degradation

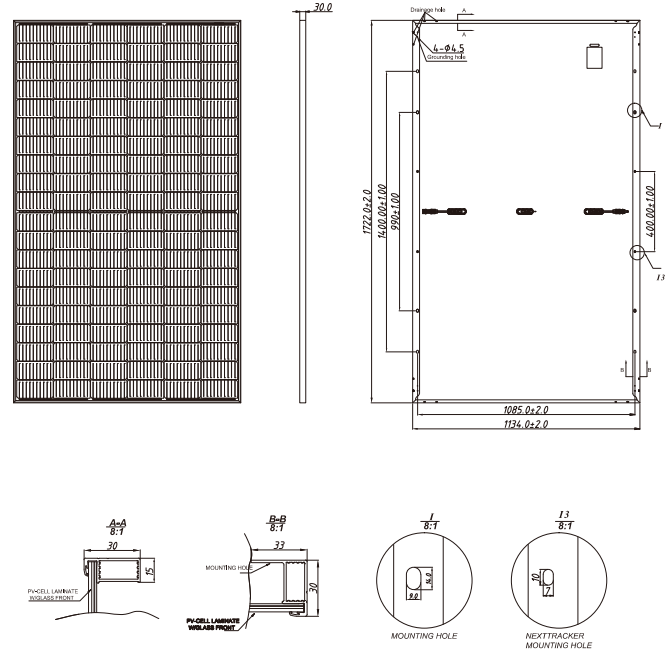
≤0.55%

Year 2-25 Power Degradation

Mechanical Characteristics

Cell Type	P-Type Perc Cell (10Busbar)
Dimension	1722×1134×30mm
Cell Dimension	182×91mm
Cell Amount	54×2 pcs
Weight	21.5kg
Junction Box	IP68
Frame	Anodized Aluminum
Front Side Glass	3.2mm AR Coating Tempered glass
Connector	T01/LJQ-3-CSY/MC4/MC4-EVO2
Cable	4mm ² (IEC), 12AWG(UL) 350mm(+), 250mm(-) or Customized Length

TECHNICAL DRAWING



Packing Configuration

Pieces Per Pallet	36 Pieces
Modules/40' Container	936/828(USA) Pieces

Electrical Characteristics (STC: AM1.5 1000W/m² 25°C NOCT: AM1.5 800W/m² 20°C 1m/s)

Model	G7P54MBW-390W		G7P54MBW-395W		G7P54MBW-400W		G7P54MBW-405W		G7P54MBW-410W	
	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)	390	291	395	294	400	298	405	302	410	306
Operating Voltage (Vmpp/V)	30.65	28.60	30.85	28.80	31.05	29.00	31.24	29.20	31.43	29.30
Operating Current (Impp/A)	12.73	10.18	12.81	10.23	12.89	10.30	12.97	10.36	13.05	10.42
Open-circuit Voltage (Voc/V)	36.50	34.40	36.75	34.60	37.00	34.80	37.25	35.10	37.50	35.30
Short-circuit Current (Isc/A)	13.61	10.97	13.69	11.04	13.78	11.11	13.86	11.17	13.94	11.24
Modules Efficiency (%)	20.00		20.20		20.50		20.70		21.00	

Application Conditions

Maximum System Voltage	1000V/1500V DC
Operational Temperature	-40~+85°C
Max Series Fuse Rating	25A
Safety Protection Class	Class II
Mechanical Load (Front Side)	5400Pa
Mechanical Load (Back Side)	2400Pa

Temperature Characteristics

Temp Coefficient of P _{MAX}	-0.35%/°C
Temp Coefficient of V _{OC}	-0.26%/°C
Temp Coefficient of I _{SC}	+0.048%/°C
NMOT	43±2°C

I-V Characteristics 410W

