

N Type

WERAN

WR7-72HGD

585~620M

23.0%

MAX MODULE
EFFICIENCY

0~3%

POWER
TOLERANCE

<1%

FIRST YEAR
POWER DEGRADATION

0.40%

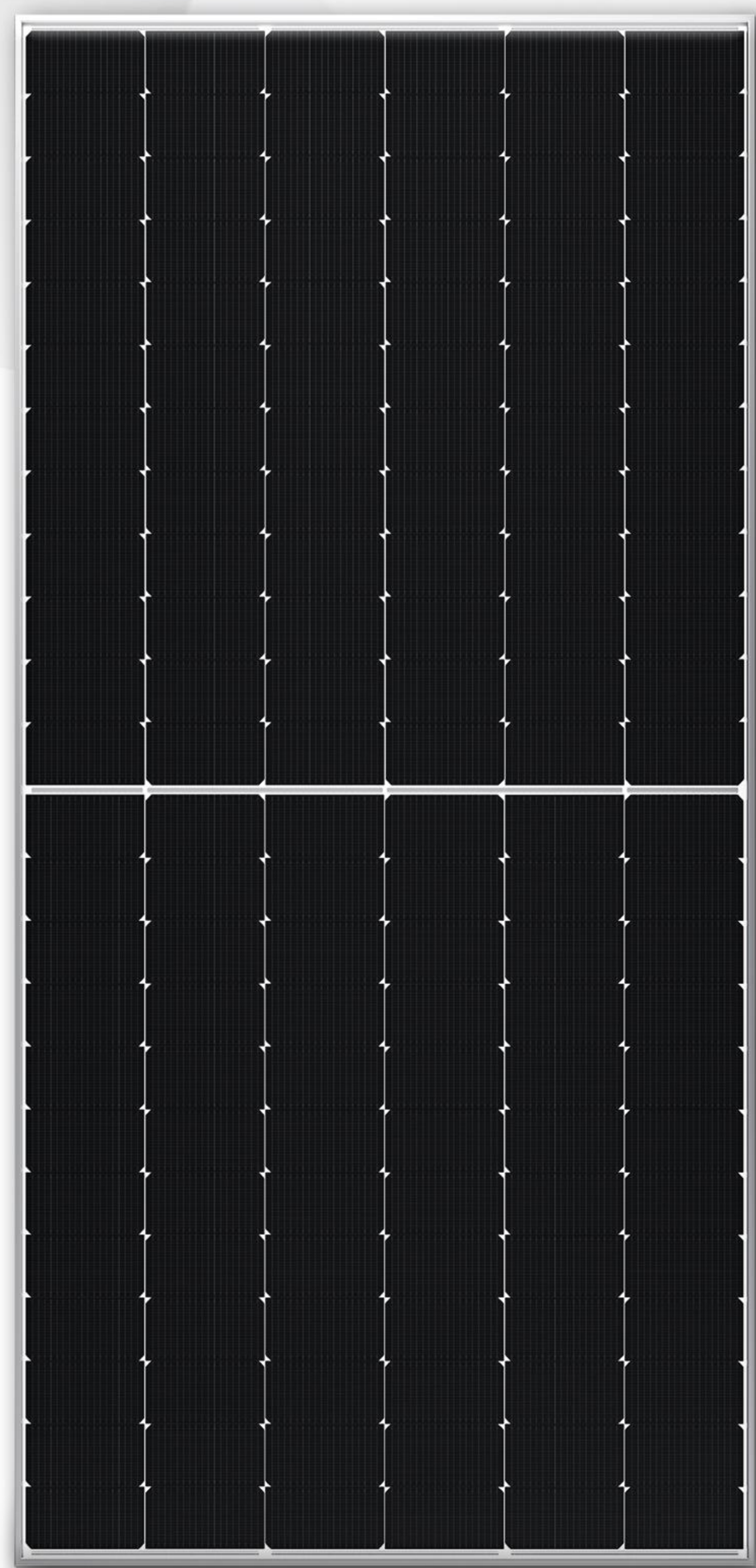
YEAR 2~30
POWER DEGRADATION



12-year Warranty for
Materials and Processing



30-year Warranty for Extra
Linear Power Output



- ✓ Suitable for Distribution Market
- ✓ N-Type Cell, TOPCon Technology
- ✓ 23.0% Maximum Module Efficiency
- ✓ Optimum Size - Lower Transportation Costs and BOS Costs
- ✓ Dual Glass - Up to 25% Additional Electricity Generation

Complete System and Product Certifications

IEC 61215, IEC 61730, UL 61730

ISO9001:2015: ISO Quality Management System

ISO14001: 2015: ISO Environment Management System

ISO45001: 2018: Occupational Health and Safety

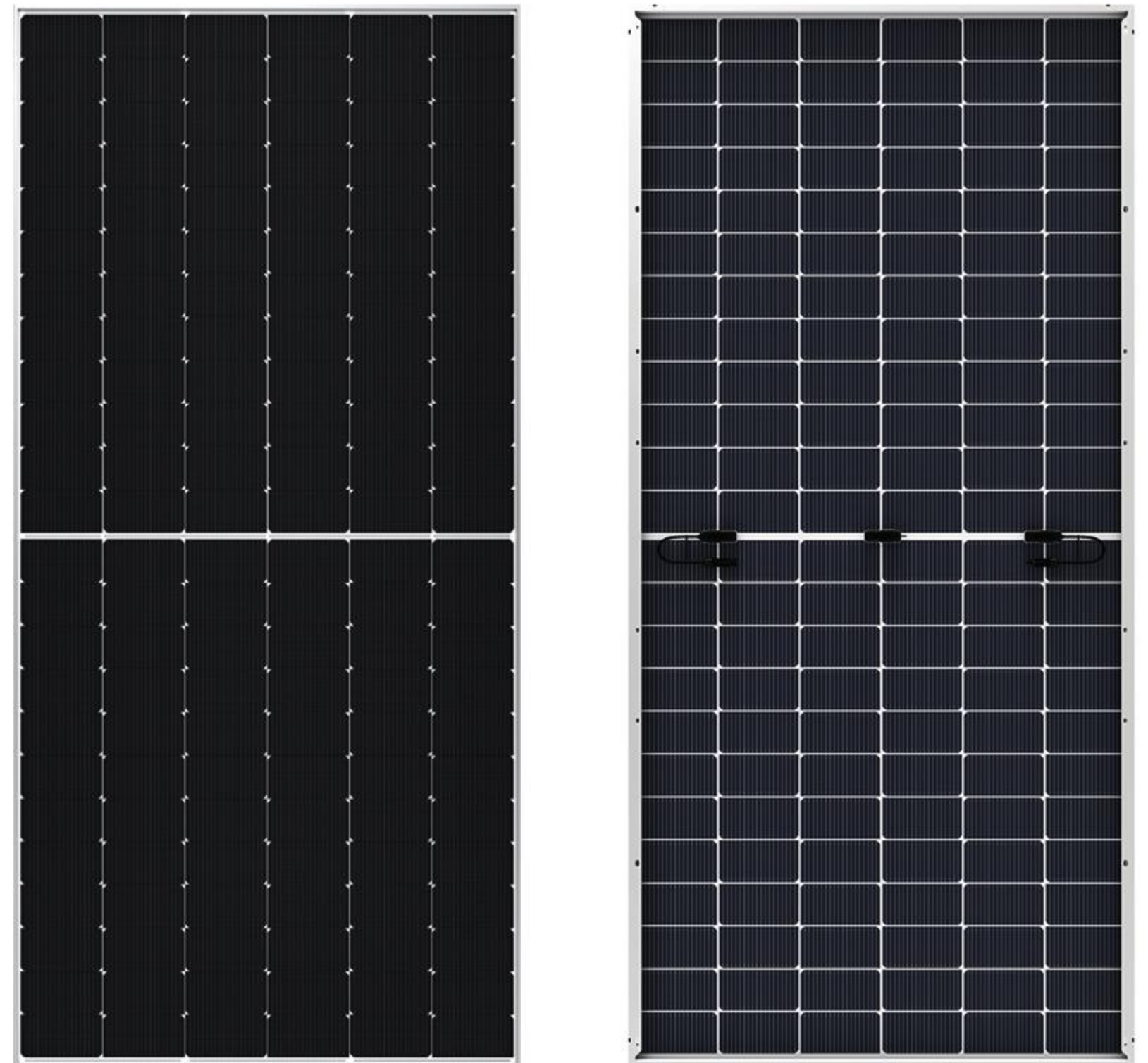
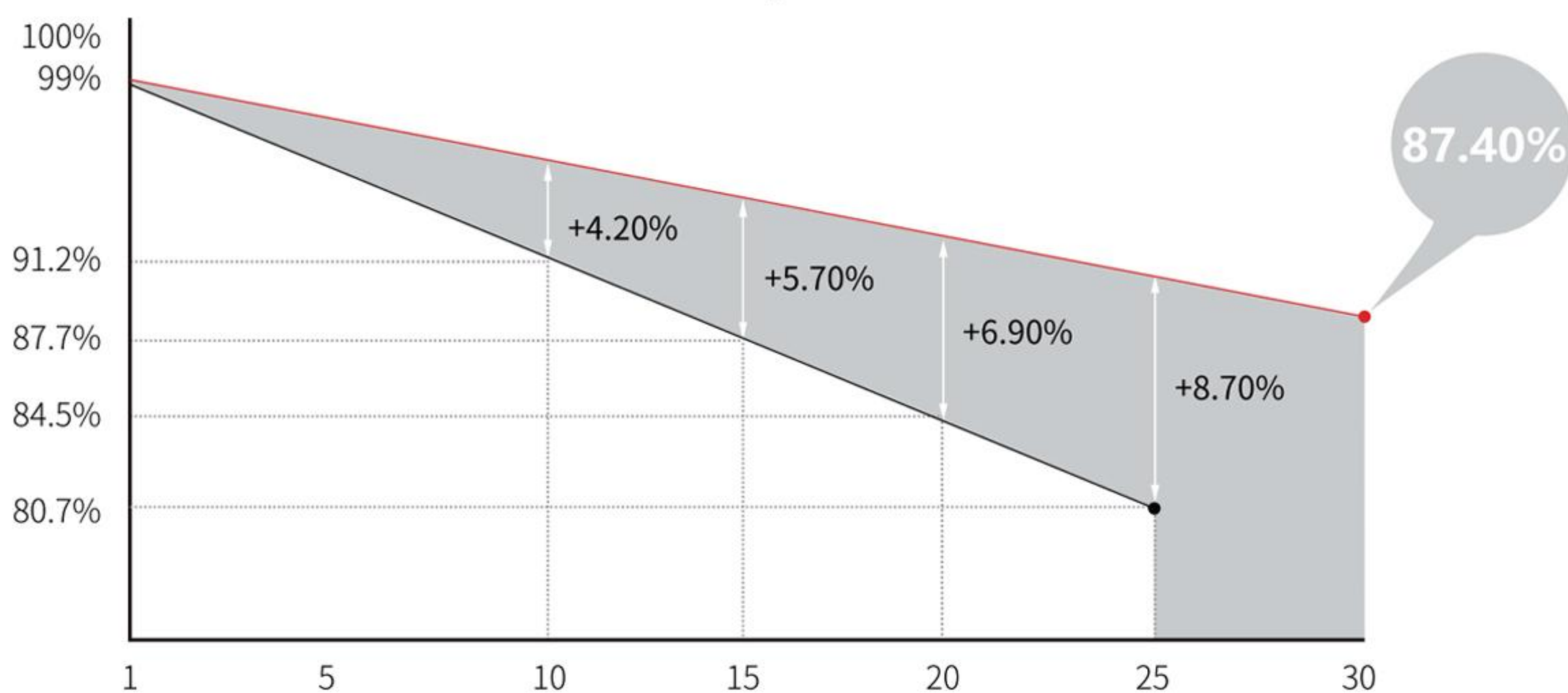
IEC62941: Guideline for module design qualification and type approval



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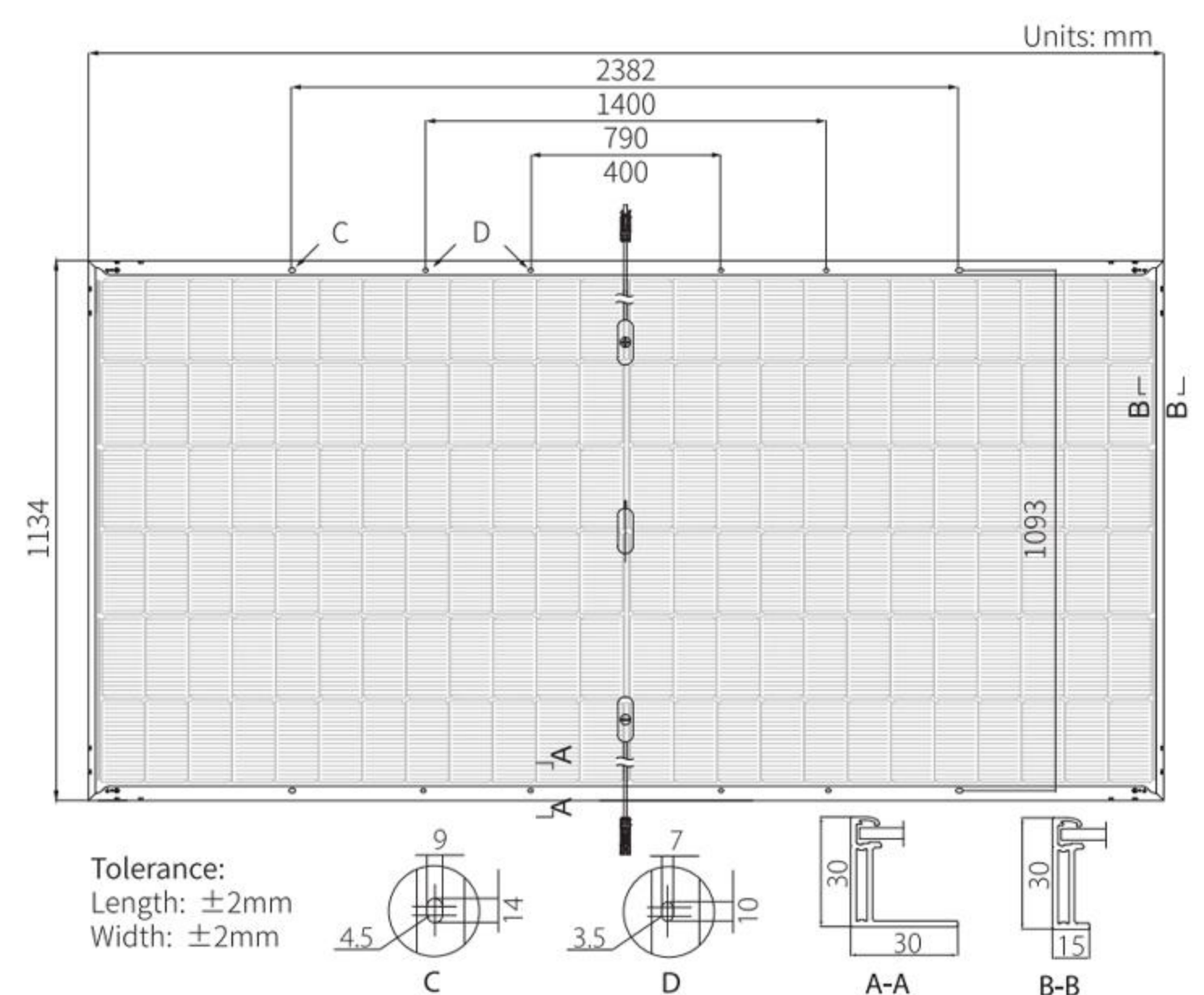
Additional Value

30-Year Power Warranty



Mechanical Parameters

Cell Orientation	144 (6x24)
Junction Box	IP68, three diodes
Output Cable	4mm ² , +400, -200mm/±1400mm length can be customized
Glass	Dual glass, 2.0+2.0mm semi-tempered glass
Frame	Anodized aluminum alloy frame
Weight	33.5kg
Dimension	2382x1134x30mm
Packaging	36pcs per pallet / 144pcs per 20'GP / 720pcs per 40'HC



Electrical Characteristics

STC:AM1.5 1000W/m² 25°C NOCT:AM1.5 800W/m² 20°C 1m/s Test uncertainty for Pmax: ±3%

Module Type	WR7-72HGD-585M		WR7-72HGD-590M		WR7-72HGD-595M		WR7-72HGD-600M		WR7-72HGD-605M		WR7-72HGD-610M		WR7-72HGD-615M		WR7-72HGD-620M	
Testing Condition	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax/W)	585	445.3	590	449.1	595	452.9	600	456.7	605	460.6	610	464.4	615	468.2	620	472.0
Open Circuit Voltage (Voc/V)	52.01	49.43	52.12	49.53	52.23	49.64	52.34	49.74	52.44	49.84	52.55	49.94	52.66	50.04	52.77	50.15
Short Circuit Current (Isc/A)	14.29	11.48	14.37	11.54	14.45	11.61	14.53	11.67	14.61	11.74	14.69	11.80	14.77	11.86	14.85	11.92
Voltage at Maximum Power (Vmp/V)	43.57	41.41	43.68	41.51	43.79	41.63	43.90	41.72	44.00	41.82	44.11	41.92	44.22	42.03	44.33	42.13
Current at Maximum Power (Imp/A)	13.43	10.76	13.51	10.82	13.59	10.88	13.67	10.95	13.75	11.02	13.83	11.08	13.91	11.14	13.99	11.21
Module Efficiency(%)	21.7		21.8		22.0		22.2		22.4		22.6		22.8		23.0	

Electrical characteristics with different rear side power gain (reference to 605W front)

Pmax/W	Voc/V	Isc/A	Vmp/V	Imp/A	Pmax gain
635	52.44	15.35	44.00	14.44	5%
666	52.44	16.08	44.00	15.13	10%
696	52.54	16.81	44.10	15.81	15%
726	52.54	17.54	44.10	16.50	20%
756	52.54	18.27	44.10	17.19	25%

Operating Parameters

Operational Temperature	-40°C~+85°C
Power Output Tolerance	0~3%
Maximum System Voltage	DC1500V (IEC/UL)
Maximum Series Fuse Rating	30A
Nominal Operating Cell Temperature	45±2°C
Protection Class	Class II
Bifaciality	80±5%
Fire Rating	UL type 29, IEC Class C

Mechanical Loading

Front Side Maximum Static Loading	5400Pa
Rear Side Maximum Static Loading	2400Pa
Hailstone Test	25mm Hailstone at the speed of 23m/s

Temperature Ratings (STC)

Temperature Coefficient of Isc	+0.045%/°C
Temperature Coefficient of Voc	-0.230%/°C
Temperature Coefficient of Pmax	-0.280%/°C



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Specifications included in this datasheet are subject to change without notice. WERAN reserves the right of final interpretation.