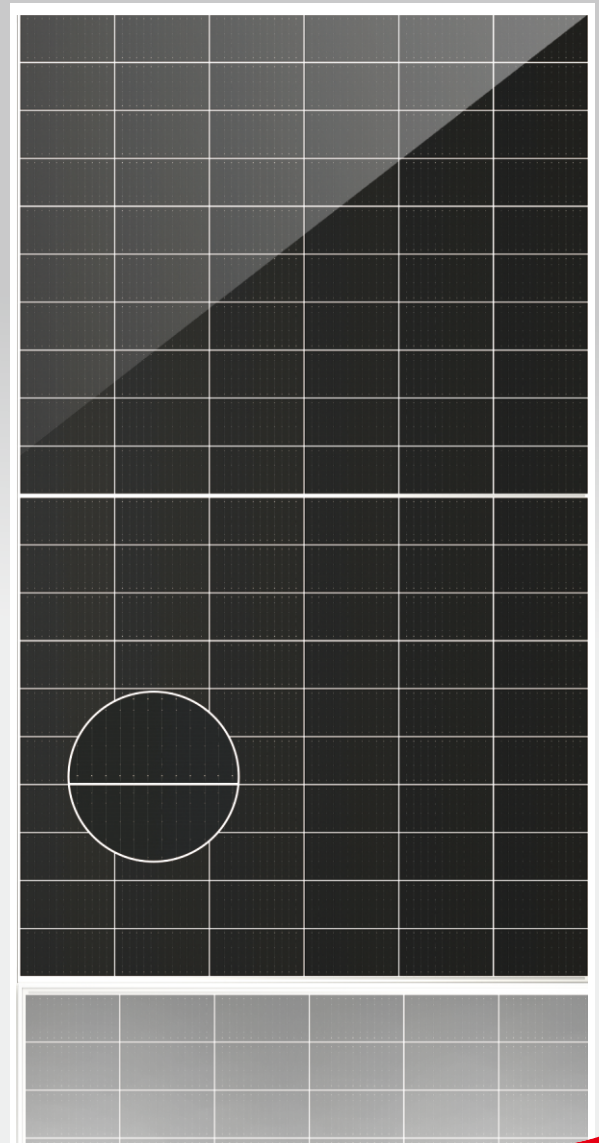


Apls2Pro

555-585W

N type TOPCon module

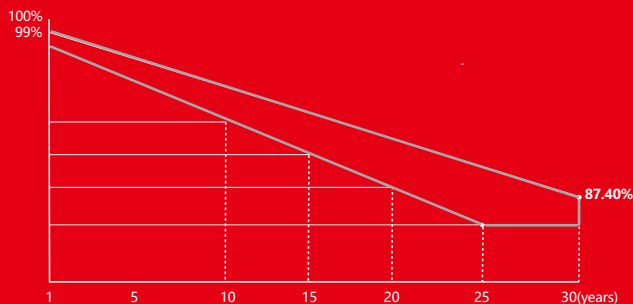
- Using the latest TOPCon 16BB silicon cells, the output power reaches 585W with a conversion efficiency reaching 22.64%.
- The same surface area achieves a higher power generation efficiency when compared with standard modules
- Ultra-low attenuation rate, first year attenuation $\leq 1\%$, 2-30 years linear attenuation $\leq 0.4\%$
- Fully automatic production line with full quality inspection to ensure product assurance
- The Components are resisting wind loads of 2400pa and snow loads of 5400pa



30 YEAR 30 YEAR LINEARITY POWER OUTPUT WARRANTY

15 YEAR 15 YEARS OF EXCELLENT PRODUCTS MATERIAL AND PROCESS WARRANTY

30 YEAR EXCESS LINEAR POWER OUTPUT WARRANTY



The power attenuation shall not exceed 1% in the first year and 0.4% in the following years.

COMPLETE QUALITY MANAGEMENT SYSTEM AND PRODUCT CERTIFICATION



IEC 61215, IEC 61730

ISO 9001:Quality Management System

ISO 14001:Environmental Management System

ISO 45001:Occupational Health And Safety Management System

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Apls2Pro 555-585W

Maximum efficiency

585W

Power tolerance

0~ + 5W

Highest component conversion efficiency

22.64%

First year attenuation

≤1.0%

Decay over the years

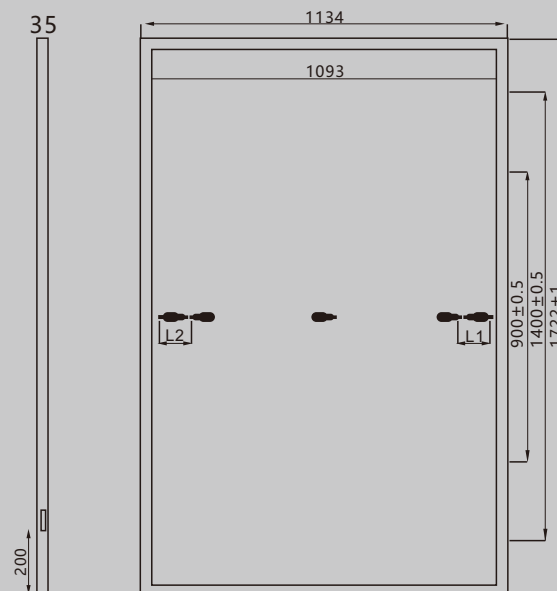
≤0.4%

MECHANICAL PROPERTIES

Battery type	N-TYPE TOPCon
Component weight	28kg
Component Size	2279x1134x35mm
Number of Cells	144(6x24)
Cable cross-sectional area	4mm ²
Junction Box	IP68, 3 diodes
Connector	MC4 compatible connector
Packaging information	31 pieces per pallet

WORKING PARAMETERS

Maximum system voltage	1500V (TUV)
Operating temperature	-40°C~+85°C
Maximum fuse current rating	25A
Maximum static load, front	5400pa
Maximum static load,back side	2400pa
nominal battery operating temperature	45+2°C
Application Level	classA



TEMPERATURE CHARACTERISTICS

Power	-0.350%/°C
Open circuit voltage	-0.274%/°C
Short-circuit current	-0.044%/°C

ELECTRICAL PERFORMANCE PARAMETERS UNDER STC

Model	Apls2Pro -555	Apls2Pro -560	Apls2Pro -565	Apls2Pro -570	Apls2Pro -575	Apls2Pro -580	Apls2Pro -585
Maximum power (W)	555	560	565	570	575	580	585
Voltage at maximum power point (VMPV)	42.95	43.25	43.55	43.85	44.45	44.45	44.75
Current at maximum power point (IMP/A)	12.92	12.95	12.97	13.00	13.02	13.05	13.07
Open circuit voltage (VOCN)	50.10	50.30	50.50	50.70	50.90	51.10	50.30
Short circuit current (ISC/A)	14.01	14.07	14.13	14.19	14.25	14.31	14.37
Component efficiency [%]	21.48%	21.67%	21.86%	22.06%	22.25%	22.44%	22.64%
Power tolerance (W)	0~ +5						
Standard test environment	Irradiance 1000W/m ² ,cell temperature 25°Cspectrum AM1.5						

Note: Due to continuous innovation, esearch and product upgrading, the parameters in this specification are not just a component,but can only be used for comparison between different types.

ELECTRICAL PERFORMANCE PARAMETERS UNDER NOCT

Model	Apls2Pro -560	Apls2Pro -565	Apls2Pro -570	Apls2Pro -575	Apls2Pro -580	Apls2Pro -585
Maximum power (W)	417	420	424	428	432	435
Voltage at maximum power point (Vmp)[V]	39.79	40.09	40.39	40.69	40.99	41.29
Current at maximum power point (Imp)[A]	10.47	10.49	10.50	10.51	10.53	10.54
Open circuit voltage (Voc)[V]	46.95	47.15	47.35	47.55	47.75	47.95
Short circuit current (Isc)[A]	11.40	11.45	11.50	11.55	11.60	11.65
Nominal cell operating temperature(NOCT)	Irradiance 800W/m ³ , ambient temperature 20 C, spectrum AM1.5G, wind speed 1m/s					