

Deep Sea 7.0

MBB Half-Cell, 660–710W Solar Modules

TOPCon Technology, More Power



Higher output power



Lower LCOE



**Less shading and
lower resistive loss**

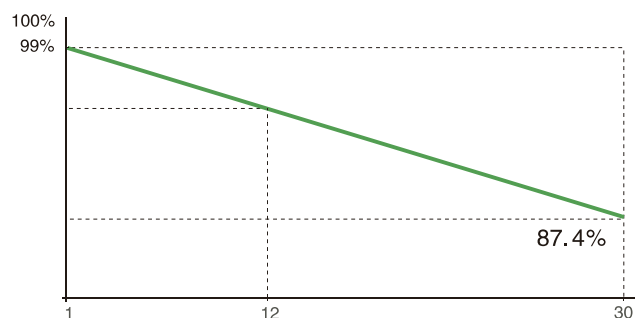


Better mechanical loading tolerance

Superior Warranty

- 12-year product warranty
- 30-year linear power output warranty

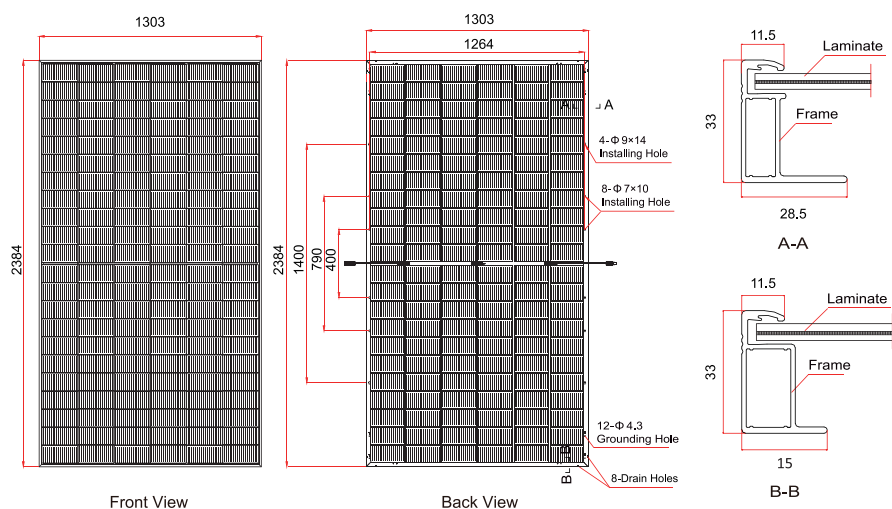
0.4% Annual Degradation
Over 25 Years



Comprehensive Certificates

- IEC 61215, IEC61730, UL 61215, UL61730
- ISO 9001: 2015 Quality management systems
- ISO 14001: 2015 Environmental management systems
- ISO 45001: 2018 Occupational health and safety management systems
- IEC TS 62941: 2016 Terrestrial photovoltaic (PV) modules — Guidelines for increased confidence in PV module design qualification and type approval

MECHANICAL DIAGRAMS



SPECIFICATIONS

Cell	Mono
Weight	37kg (bifacial), 32kg (monofacial)
Dimensions	2384x1303x33±1mm
Cable Cross Section Size	4mm ² (IEC) , 12 AWG(UL)
No. of cells	132 (6x22)
Junction Box	IP68, 3 diodes
Connector	QC4 MC4
Cable Length (Including Connector)	Portrait: 300mm(+)/400mm(-); Landscape: 1300mm(+)/1300mm(-)
Packaging Configuration	33pcs/Pallet 594pcs/40HQ Container

ELECTRICAL PARAMETERS AT STC

TYPE	AP-660W	AP-670W	AP-680W	AP-690W	AP-700W	AP-710W
Rated Maximum Power(P _{max}) [W]	660	670	680	690	700	710
Open Circuit Voltage(V _{oc}) [V]	47.00	47.40	47.80	48.20	48.60	49.00
Maximum Power Voltage(V _{mp}) [V]	38.90	39.30	39.70	40.10	40.50	40.90
Short Circuit Current(I _{sc}) [A]	18.04	18.11	18.18	18.25	18.32	18.40
Maximum Power Current(I _{mp}) [A]	16.97	17.05	17.13	17.21	17.29	17.36
Module Efficiency [%]	20.90	21.30	21.70	22.10	22.50	22.90
Power Tolerance	0~+5W					
Temperature Coefficient of I _{sc} (α _{Isc})	+0.045%/°C					
Temperature Coefficient of V _{oc} (β _{Voc})	-0.250%/°C					
Temperature Coefficient of P _{max} (γ _{Pmp})	-0.290%/°C					
STC	Irradiance 1000W/m ² , cell temperature 25°C, AM1.5G					

Remark: Electrical data in this catalog do not refer to a single module and they are not part of the offer. They only serve for comparison among different module types.

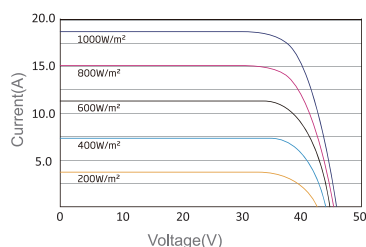
ELECTRICAL CHARACTERISTICS WITH 10% SOLAR IRRADIATION RATIO

TYPE	AP-660W	AP-670W	AP-680W	AP-690W	AP-700W	AP-710W	OPERATING CONDITIONS	
Rated Max Power(P _{max}) [W]	726	737	748	759	770	781	Maximum System Voltage	1000V/1500V DC
Open Circuit Voltage(V _{oc}) [V]	47.00	47.40	47.80	48.20	48.60	49.00	Operating Temperature	-40 °C ~+85 °C
Max Power Voltage(V _{mp}) [V]	38.90	39.30	39.70	40.10	40.50	40.90	Maximum Series Fuse Rating	25A
Short Circuit Current(I _{sc}) [A]	19.83	19.91	19.99	20.07	20.15	20.24	Maximum Static Load, Front*	5400Pa(112lb/ft ²)
Max Power Current(I _{mp}) [A]	18.70	18.78	18.86	18.94	19.02	19.10	Maximum Static Load, Back*	2400Pa(50lb/ft ²)
Irradiation Ratio(rear/front)	10%						NOCT	45±2 °C
							Safety Class	Class II
							Fire Performance	UL Type 29/Class C

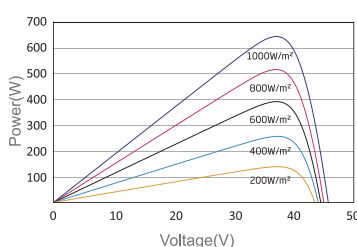
*For NexTracker installations, Maximum Static Load, Front is 2400Pa while Maximum Static Load, Back is 2400Pa.

CHARACTERISTICS

Current-Voltage Curve AP-670W



Power-Voltage Curve AP-670W



Current-Voltage Curve AP-670W

