ONBIPV

P10DG505TC

- Suitable for C&I Market
- MBB Technology, Anti PID
- Better energy generation performance
- N-type TOPCon solar module guarantees long-term reliability



12-year Product Warranty

30-year Linear Power Output Warranty

- IEC61215/IEC61730/UL61730
- IEC61701/IEC62716/IEC60068
- IEC62941/IEC62804
- ISO9001:2015: Quality Management System
- ISO14001:2015: Environment Management System
- ISO45001:2018: Occupational health and safety management system

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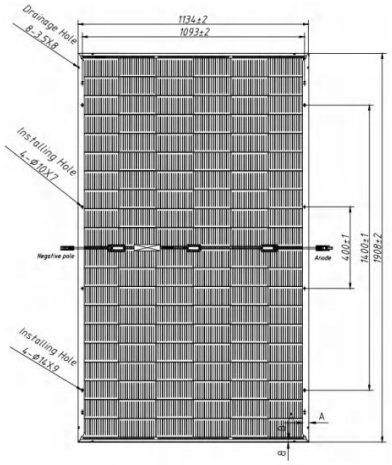
23.30%	0~+3%	1%	0.40%
MAX MODULE EFFICIENCY	POWER TOLERANCE	FIRST YEAR POWER DEGRADATION	YEAR 2-25 POWER DEGRADATION





All Dimensions in mm,
The drawing is a graphical representation of the product,
For engineering quality drawings please contact ONBIPV

Electrical Characteristics (STC/NOCT)

STC : AM1.5 1000W/㎡ 25℃ NOCT : WS1m/s 800W/㎡ 20℃

Module Type	505W
Maximun Power - (Pmax/W)	505/381
Open Circuit Voltage - Voc(V)	43.56/41.37
Short-Circuit Current - Isc(A)	14.71/12.09
Voltage at Pmax - Vmp(V)	36.26/34.05
Current at Maximum Power(I)	13.93/11.20
Module Efficiency - Lm(%)	23.30

Mechanical Parameters

Cell Orientation	Monocrystalline TOPCON182 (6×20)
Junction Box	Protection level IP68
Output Cable	4mm², 300mm
Glass	2.0mm, Anti-reflection coating glass 2.2mm, Hightransparency solar glass
Frame	Anodized aluminium
Weight	28.4kg
Dimension	1908*1134*30mm
Packaging	37pcs per pallet / 444pcs per 20′GP / 888pcs per 40′HC

Optional

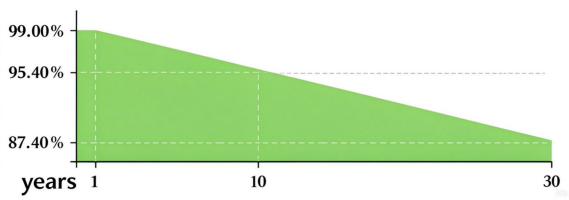
Connector	■ Original MC
Cable Length	■ 1200mm
Frame	■ Black
Glass	■ Black

Operating Parameters

Operating Temperature	-40℃~+85℃
Power Output Tolerance	0~3W
Voc and Isc Tolerance	±3%
Maximun System Voltage	1500VDC-[H]
Maximun Series Fuse Rating	25A
Nominal Operating Cell Temperature	44±2℃
Protection Class	Class II
Fire Rating	UL type 1 or 2 IEC Class C

Temperature Ratings(STC)

Temperature Coefficient of Isc	+0.046%/℃
Temperature Coefficient of Voc	-0.250%/℃
Temperature Coefficient of Pmax	-0.300%/℃



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