

ORM60D35TP 470~485W

ALL BLACK
N-Type TOPCon Bifacial

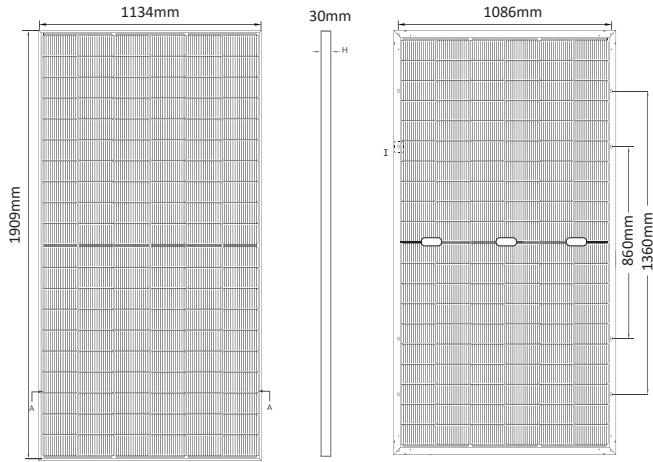
- Higher module power reduce the overall BOS of the PV system
- Better Anti-PID performance
- Higher power output at low light conditions
- At least 30 years life cycle

COMPREHENSIVE PRODUCTS & SYSTEM CERTIFICATES

IEC 61215 / IEC 61730 / CE / JPEA / FIDE / INMETRO
ISO 45001:
2018/International standards for occupational health & safety
ISO 14001:
2015/Standards for environmental management system
ISO 9001:
2015/Quality management system



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MECHANICAL PARAMETERS	
Cell type	N-Type TOPCon
Weight	28kg
Module dimension	1909*1134*30mm
Number of cells	120 (6*20)
Cable	4mm ²
Junction box	IP68, 3 diodes
Connector	MC4 compatible connector
Packaging	36 pieces per pallet 864pcs/40'HQ Container

ELECTRICAL PERFORMANCE	STC: AM1.5 1000W/m ² 25°C				NOCT: AM1.5 800W/m ² 20°C 1m/s			
	ORM60D35-470/TP		ORM60D35-475/TP		ORM60D35-480/TP		ORM60D35-485/TP	
Model	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Type	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum power (W)	470	353	475	357	480	361	485	365
Voltage at maximum power point (VMP/V)	35.05	32.94	35.21	33.10	35.38	33.27	35.54	33.44
Current at maximum power point (IMP/A)	13.41	10.73	13.49	10.79	13.57	10.85	13.65	10.91
Open circuit voltage (VOC/V)	42.38	40.25	42.54	40.41	42.71	40.57	42.88	40.73
Short circuit current (ISC/A)	14.15	11.42	14.23	11.49	14.31	11.55	14.39	11.61
Component efficiency (%)	21.71%		21.94%		22.17%		22.40%	
Power tolerance	0~+5W							
Temperature Coefficient of Isc(α_Isc)	+0.05%/°C							
Temperature Coefficient of Voc(β_Voc)	-0.275%/°C							
Temperature Coefficient of Pmax(γ_Pmp)	-0.35%/°C							

BIFACIAL OUTPUT-REAR SIDE POWER GAIN					
5%	Maximum Power (Pmax)	494Wp	499Wp	504Wp	509Wp
	Module Efficiency STC (%)	25.27%	25.54%	25.81%	26.08%
15%	Maximum Power (Pmax)	541Wp	546Wp	552Wp	558Wp
	Module Efficiency STC (%)	27.68%	27.97%	28.27%	28.56%

WORKING PARAMETERS	
Maximum system voltage	1500V (TUV)
Operating temperature	-40°C~+85°C
Maximum series fuse rating	25A
Maximum static load, front side	5400pa
Maximum static load, back side	2400pa
Nominal battery operating temperature	44±2°C
Application level	ClassA

