

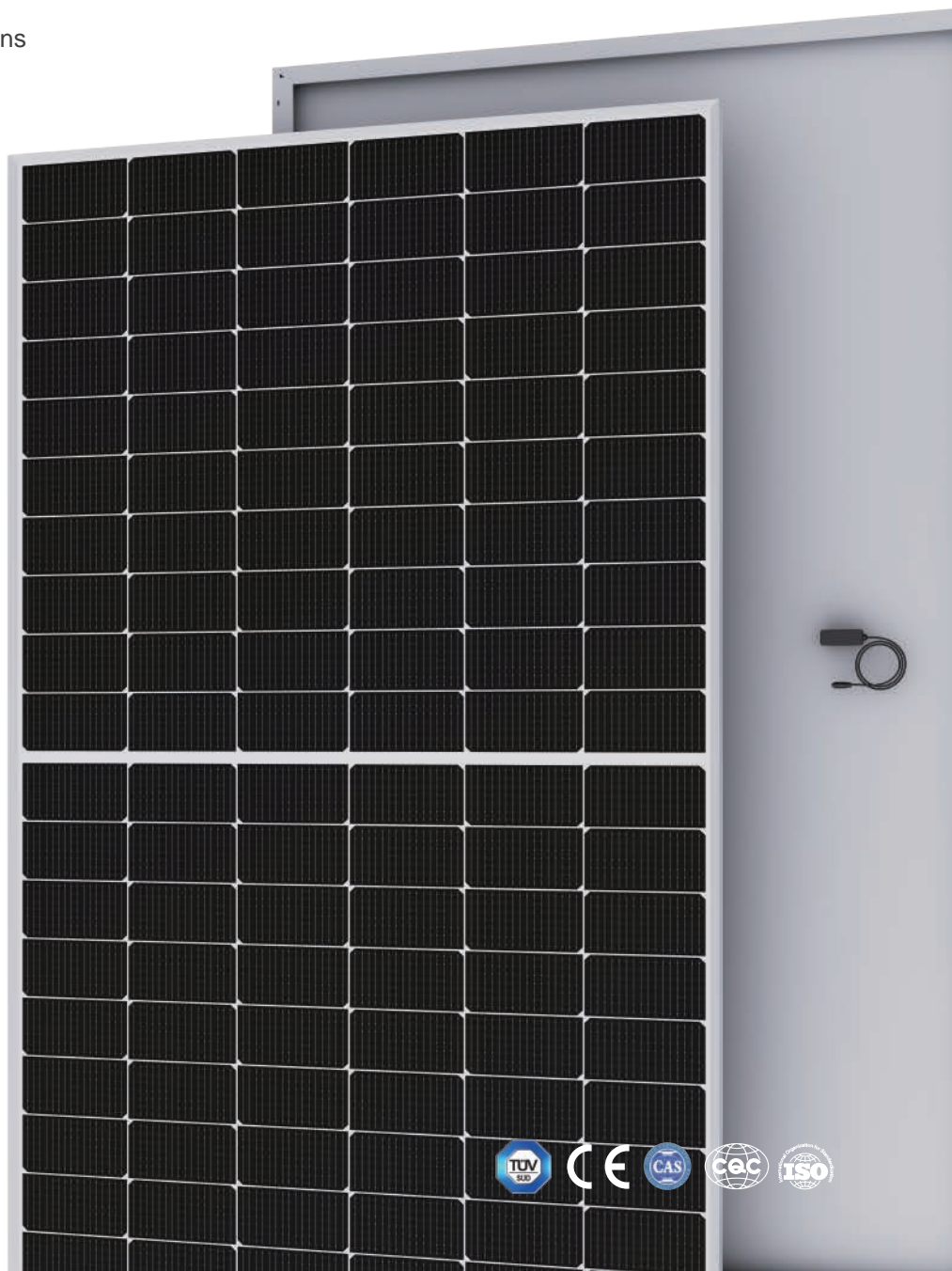


TO MAKE A BETTER LIFE

ORM60T31TP 470~485W

N-Type TOPCon Module

- 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:

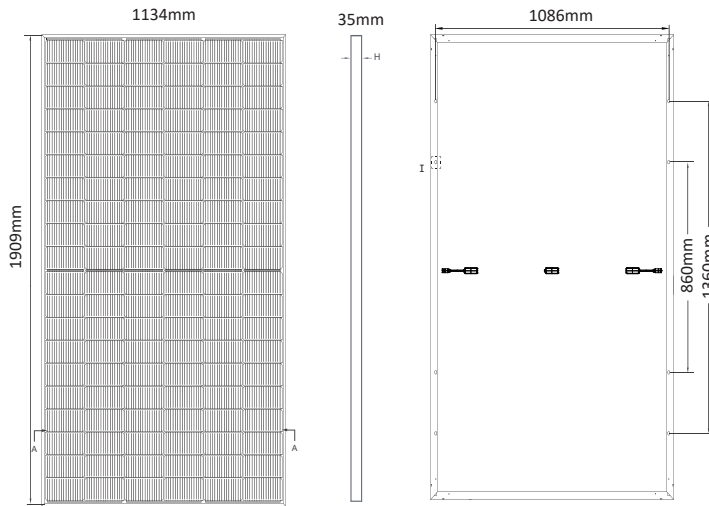
2015/Standards for environmental management system

ISO 9001:

2015/Quality management system



ORM60T31TP470~485W



MECHANICAL PARAMETERS	
Cell type	N-TYPE TOPCon
Weight	24kg
Module dimension	1909*1134*35mm
Number of cells	120 (6*20)
Cable	4mm ²
Junction box	IP68, 3 diodes
Connector	MC4 compatible connector
Packaging	31 pieces per pallet 744pcs/40'HQ Container

ELECTRICAL PERFORMANCE	STC: AM1.5 1000W/m ² 25 °C				Power tolerance : 0~±5W		NOCT: AM1.5 800W/m ² 20 °C 1m/s			
	ORM60T31-470/TP		ORM60T31-475/TP		ORM60T31-480/TP		ORM60T31-485/TP			
Type	STC	NOCT	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	35.45	33.44		
Current at maximum power point (IMP/A)	13.41	10.73	13.49	10.47	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 (%)	21.78%		22.01%		22.24%		22.39%			
Power tolerance					0~+5W					
Temperature Coefficient of Isc(α _{Isc})					+0.046%/°C					
Temperature Coefficient of Voc(β _{Voc})					-0.260%/°C					
Temperature Coefficient of Pmax(γ _{Pmp})					-0.300%/°C					

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	45±2 °C
Application level	ClassA

