

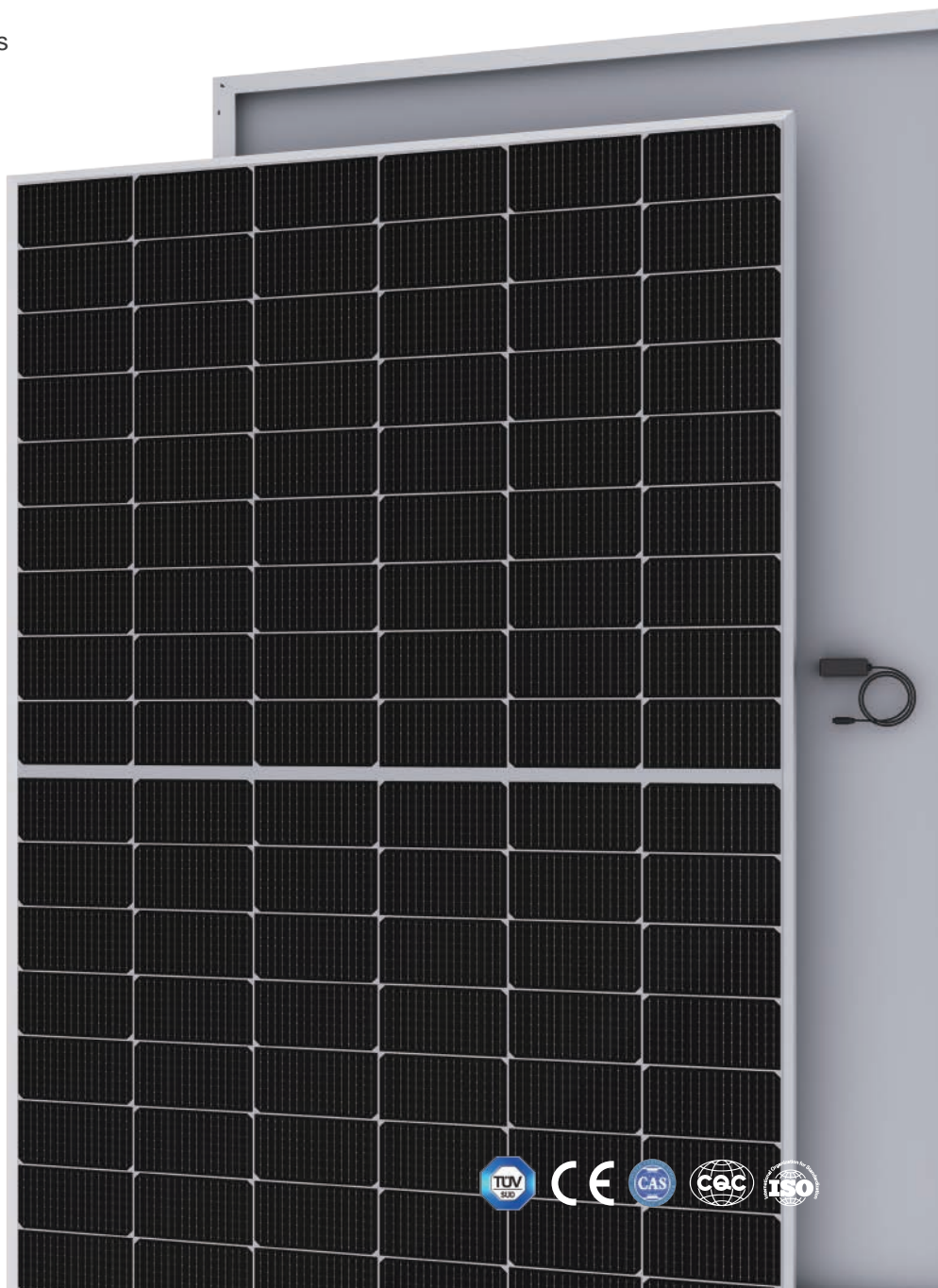


TO MAKE A BETTER LIFE

ORM54T31TP 410~435W

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:

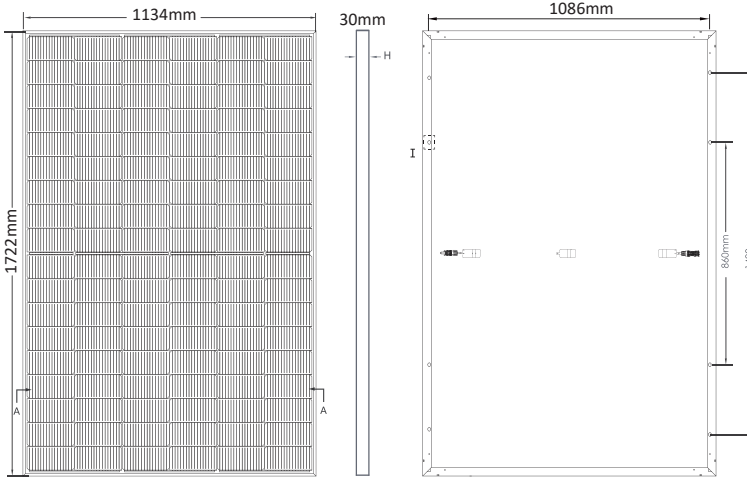
2015/Standards for environmental management system

ISO 9001:

2015/Quality management system



ORM54T31TP410~435W



MECHANICAL PARAMETERS	
Cell type	N-TYPE TOPCon
Weight	21kg
Module dimension	1722*1134*30mm
Number of cells	108 (6*18)
Cable	4mm ²
Junction box	IP68, 3 diodes
Connector	MC4 compatible connector
Packaging	36 pieces per pallet 936pcs/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			
	ORM54T31-410/TP		ORM54T31-415/TP		ORM54T31-420/TP		ORM54T31-425/TP		ORM54T31-430/TP		ORM54T31-435/TP	
Type	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum power (W)	410	305	415	309	420	312	425	316	430	320	435	324
Voltage at maximum power point (VMP/V)	31.65	29.31	31.83	29.61	32.05	29.91	32.25	30.22	32.45	30.52	32.65	30.83
Current at maximum power point (IMP/A)	12.95	10.41	13.03	10.43	13.10	10.45	13.18	10.46	13.25	10.48	13.32	10.50
Open circuit voltage (VOC/V)	37.53	35.16	37.78	35.36	38.03	35.56	38.28	35.76	38.53	35.96	38.78	36.17
Short circuit current (ISC/A)	13.90	11.55	13.94	11.61	13.99	11.67	14.04	11.75	14.09	11.83	14.13	11.91
Component efficiency (%)	21.00%		21.25%		21.51%		21.76%		22.02%		22.28%	
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

