



TO MAKE A BETTER LIFE

ORM60T31MR 445~460W

Mono Half-cut PERC Module

- Adopting multi-main shed (MBB) half-sheet technology
- Anti-PID performance
- Excellent low light power generation performance
- Load 2400 Pa at the back 5400 Pa at the front



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

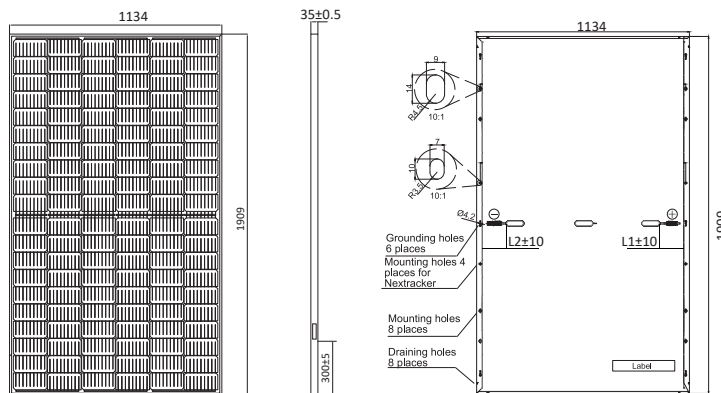


ORM60T31MR445~460W



MECHANICAL PARAMETERS

Cell type	Monocrystalline
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



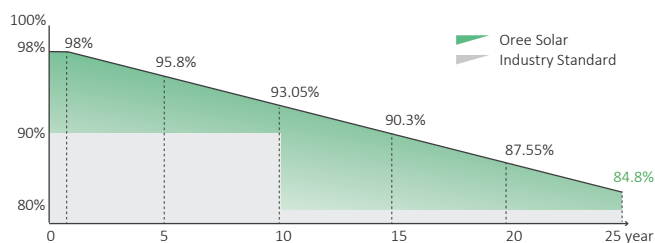
ELECTRICAL PERFORMANCE

STC: AM1.5 1000W/m² 25°C

NOCT: AM1.5 800W/m² 20°C 1m/s

Model	ORM60T31-445/MR		ORM60T31-450/MR		ORM60T31-455/MR		ORM60T31-460/MR	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum power (W)	445	338	450	341	455	344	460	348
Voltage at maximum power point (VMP/V)	34.75	32.66	34.90	32.87	35.05	33.08	35.20	33.29
Current at maximum power point (IMP/A)	12.81	10.35	12.90	10.37	12.99	10.40	13.07	10.45
Open circuit voltage (VOC/V)	41.20	38.98	41.35	39.20	41.50	39.41	41.75	39.62
Short circuit current (ISC/A)	13.75	10.95	13.83	11.00	13.90	11.05	13.97	11.10
Component efficiency (%)	20.56%		20.79%		21.02%		21.25%	
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})	-0.350%/°C							

SUPERIOR WARRANTY



12-year →

Material&technology warranty

25-year →

Linear power output warranty

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

CHARACTERISTICS

