

# Mate Pro series

Singe Glass Mono-Facial N-Type TOPCon Solar Module

# 610~635W

Model: UL-\*\*\*M-132DHVN

Maximum Efficiency: **23.51%**



### Outstanding Mechanical load Resistance

2400 Pa wind load, 5400 Pa snow load



### Longer Term Reliability

Successfully passed TUV IEC test



### Lower LCOE

Lower shading and resistive loss Lower temperature coefficient



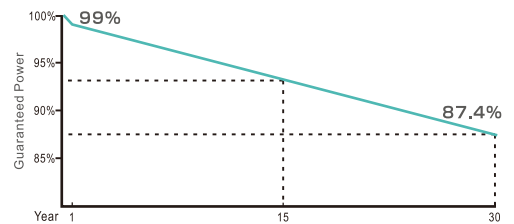
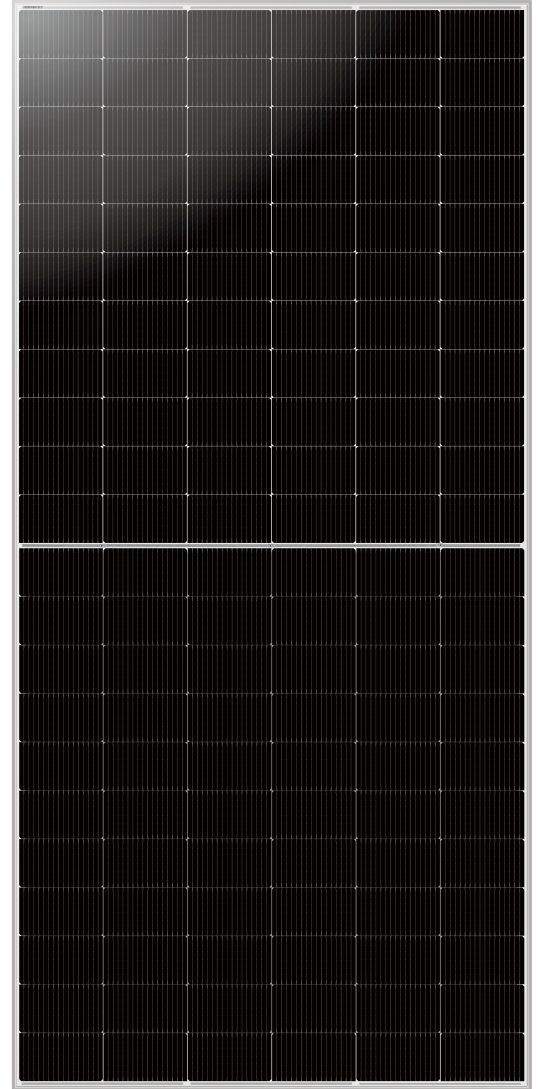
### Anti-PID(potential induced degradation)

Passed anti-PID test under 85°C damp heat 85% relative humidity for 96 hours



### Full-Scenario Resilience

Proven through rigorous resistance tests for salt mist, ammonia corrosion, sand & dust, and LeTID degradation



**15** Year Product Warranty    **1%** Power Degradation In The First Year

**30** Year Linear Power Warranty    **0.4%** Linear Power Degradation

IEC 61215, IEC 61730

ISO 9001: 2015(Quality management systems)

ISO 14001: 2015 (Environmental management systems)

ISO45001: 2018 (Occupational health and safety)

UNI 9177 Fire Test: Class 1



CEC Listed



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## ELECTRICAL SPECIFICATIONS

Module Type	UL-610M-132DHVN		UL-615M-132DHVN		UL-620M-132DHVN		UL-625M-132DHVN		UL-630M-132DHVN		UL-635M-132DHVN		
	STC*	NOCT*	STC*	NOCT*	STC*	NOCT*	STC*	NOCT*	STC*	NOCT*	STC*	NOCT*	
Maximum Power(Pmax)	W	610	462	615	466	620	470	625	474	630	477	635	481
Maximum Power Voltage(Vmp)	V	40.54	37.29	40.72	37.46	40.90	37.63	40.98	37.70	41.08	37.79	41.21	37.91
Maximum Power Current(Imp)	A	15.05	12.40	15.10	12.44	15.16	12.49	15.25	12.56	15.34	12.63	15.41	12.69
Open-circuit Current(Voc)	V	48.68	44.30	48.88	44.48	49.08	44.66	49.12	44.70	49.15	44.73	49.18	44.75
Short-circuit Current(Isc)	A	15.96	12.87	16.02	12.92	16.08	12.97	16.10	12.99	16.15	13.03	16.18	13.05
Module Efficiency STC	%	22.58		22.77		22.95		23.14		23.32		23.51	

\*STC: Cell temperature: 25°C, Irradiance: 1000W/m², Air mass: 1.5G, Power measurement tolerance: ±3%  
 \*NOCT: Air temperature: 20°C, Irradiance: 1000W/m², Air mass: 1.5G, Wind speed: 1m/s

## OPERATING PARAMETERS

Operating Temperature	-40°C~85°C
Maximum system voltage	DC1500V(IEC)
Maximum series fuse rating	25A
Nominal operating cell temperature	43±2°C
Power tolerance	0~+5Watt

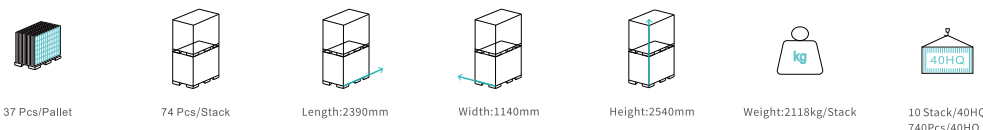
## TEMPERATURE RATINGS

Temperature coefficients of Pmax	-0.29%/°C
Temperature coefficients of Voc	-0.25%/°C
Temperature coefficients of Isc	0.046%/°C

## SPECIFICATIONS

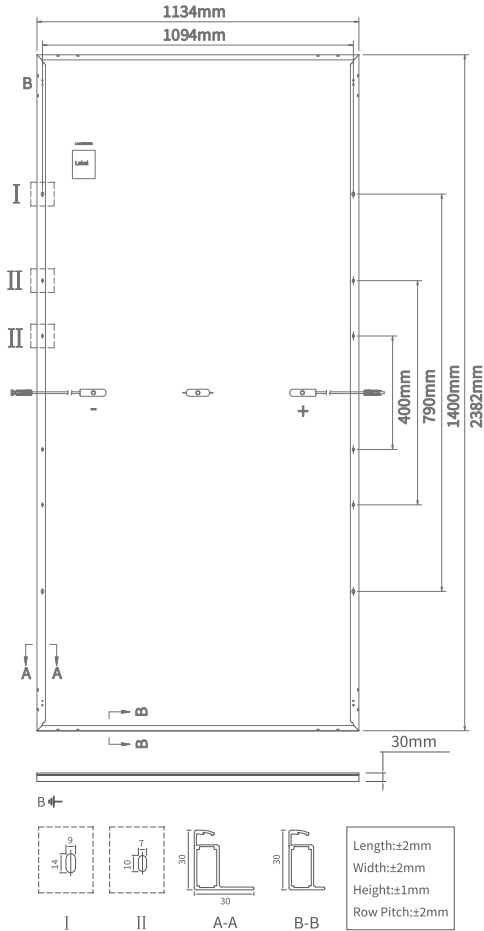
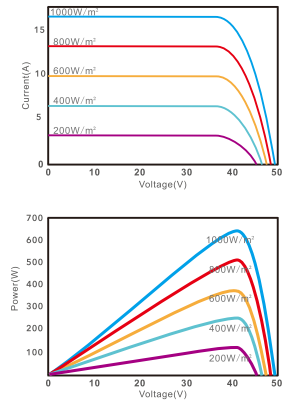
Cell Type	N-type TOPCon Mono Half Cell	
No. of cells	132(6×11×2)	
Dimensions	2382*1134*30mm	
Weight	27.5kg	
Front Glass	3.2mm, Anti-Reflection Coating, High Transmission, Low Iron, Tempered Glass	
Frame	Anodized Aluminium Alloy	
Junction Box	IP68, 3 diodes	
Connector	MC4 Compatible: PV-UL608 or others	Original: MC4-EVO2A
Cable Length (Including Connector)	4mm² Short Cable: (+)400/(-)200mm or Long Cable: (+)1400/(-)1400mm or Customized Length	

## PACKAGING INFORMATION



## I-V CURVE

I-V characteristics at different irradiances (reference to 635 W)



Specifications included in this datasheet are subject to change without notice.

Ulica Solar reserves the right of final interpretation.

Version number: UL-2382-132DHVNBB-30-EN-V1.1