

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



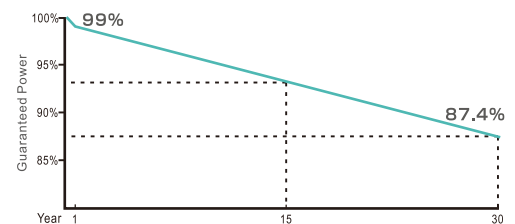
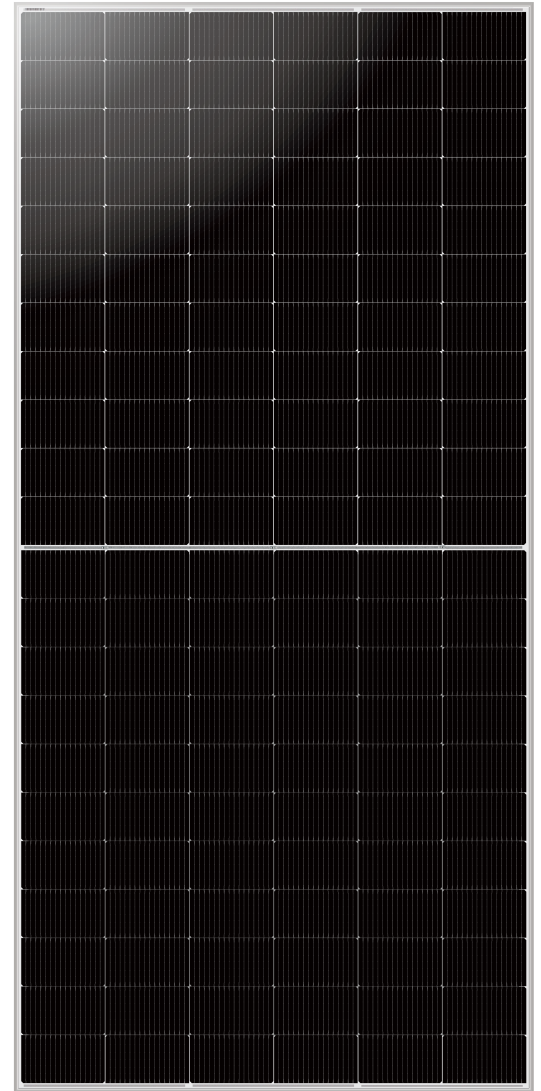
Anti-PID(Potential induced degradation)

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



15 Year Product Warranty **1%** Power Degradation In the first Year
30 Year Linear Power Warranty **0.4%** Linear Power Degradation



CEC Listed



هيئة كهرباء ومياه دبي
Dubai Electricity & Water Authority

IEC 61215, IEC 61730

ISO 9001: 2015(Quality management systems)

ISO 14001: 2015 (Environmental management systems)

ISO45001: 2018 (Occupational health and safety)

EN 13501-1 & EN 13501-5(Fire Test)



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MONO-FACIAL MODULE 610~635W



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 Voltage(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: 800W/m², Air mass: 1.5G, Wind speed: 1m/s

OPERATING PARAMETERS

Operating Temperature	-40°C~85°C
Maximum system voltage	DC 1500V(IEC)
Maximum series fuse rating	25A
Nominal operating cell temperature	43±2°C
Power tolerance	0~+5Watt

TEMPERATURE RATINGS

Temperature coefficient of Pmax	-0.29%/°C
Temperature coefficient of Voc	-0.25%/°C
Temperature coefficient 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 or Original: MC4-EVO2A or others
Cable Length (Including Connector)	4mm² Short Cable: (+)400/(-)200mm or Long Cable: (+)1400/(-)1400mm or Customized Length

PACKAGING INFORMATION



37 Pcs/Pallet



74 Pcs/Stack



Length: 2390mm



Width: 1140mm



Height: 2540mm



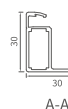
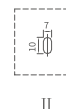
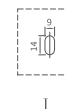
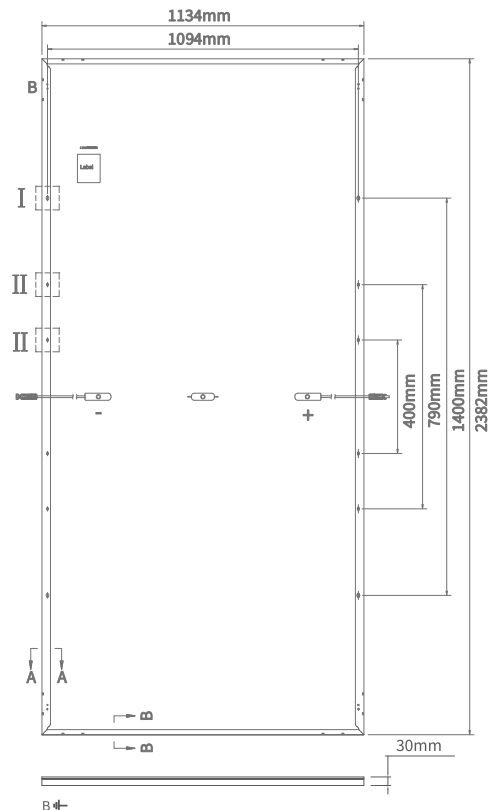
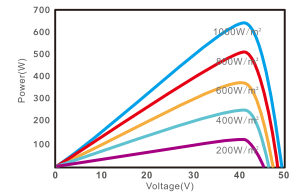
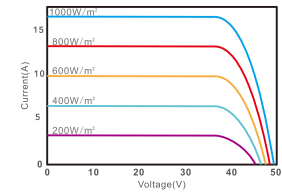
Weight: 2118kg/Stack



10 Stacks/40'HQ
740pcs/40'HQ

I-V CURVE

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



Length: ±2mm
Width: ±2mm
Height: ±1mm
Row Pitch: ±2mm



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

Ulica Solar reserves the right of final interpretation.

Version number: UL-2382-132DHVNBB-30D1-EN-V1.0