



HERO[®]PV 430N-TOP2



High Efficiency

Module efficiency leading in industry, up to 22.0%



Low Degradation

Adopting N-type TOPCon technology on M10 wafer, achieves high efficiency and ultra-low degradations.



High Fire Safety Class

Class A fire-rated HERO[®]PV solar modules are designed with materials that have high resistance to ignition and flame spread.



Double Sided Power Generation

Bifaciality is up to 80%, up to 30% more energy yield than conventional modules.



Better Temperature Coefficient

Higher power output even under low-light environments like on cloudy or foggy days.



Low LCOE

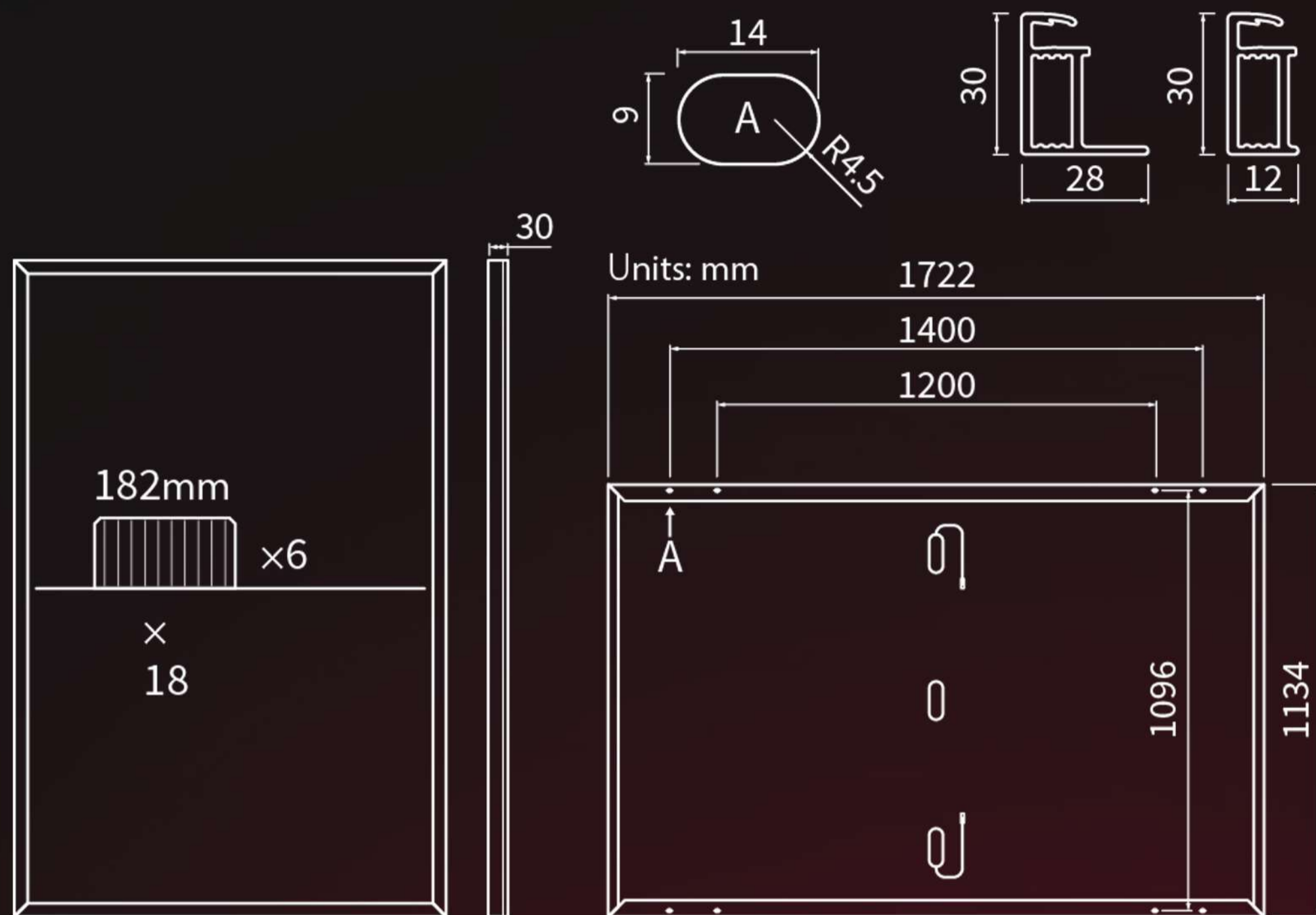
Advanced module technologies are adopted like multi-busbar, half cell, non-destructive cutting, and intelligent soldering. Bifacial modules bring additional power generation gain to the system.



30
YEAR
Materials and
workmanship warranty



30
YEAR
Linear power
warranty



Mechanical Parameters

Cell type	Mono TOPCon
No. of cells	108 (6*18)
Junction box	IP68, 3 diodes
Cable	4mm ² ; (±)1200mm or customized
Glass	Dual glass, 2.0mm/2.0mm
Frame	Anodized aluminum alloy frame
Weight	24.2kg±3%
Dimensions	1722mm x 1134mm x 30mm
Packaging	36 pcs/pallet, 936 pcs/40HQ container

Electrical Parameters

STC: AM1.5 1000W/m² 25°C NMOT: AM1.5 800W/m² 20°C 1m/s

	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Rated maximum power P _{max} (W)	410	308	415	312	420	316	425	320	430	324
Open circuit voltage V _{oc} (V)	38.20	36.10	38.40	36.30	38.60	36.50	38.80	36.70	39.00	36.90
Short circuit current I _{sc} (A)	13.64	10.92	13.70	10.98	13.76	11.04	13.82	11.10	13.88	11.16
Maximum power voltage V _{mp} (V)	32.20	29.40	32.40	29.60	32.60	29.80	32.80	30.00	33.00	30.20
Maximum power current I _{mp} (A)	12.74	10.48	12.82	10.54	12.89	10.60	12.96	10.66	13.04	10.74
Module efficiency (%)	21.0		21.3		21.5		21.8		22.0	
Bifacial gain 10%										
Rated maximum power P _{max} (W)	451		457		462		468		473	
Open circuit voltage V _{oc} (V)	38.20		38.40		38.60		38.80		39.00	
Short circuit current I _{sc} (A)	15.00		15.07		15.14		15.20		15.27	
Maximum power voltage V _{mp} (V)	32.20		32.40		32.60		32.80		33.00	
Maximum power current I _{mp} (A)	14.01		14.10		14.18		14.26		14.34	

Temperature Coefficients

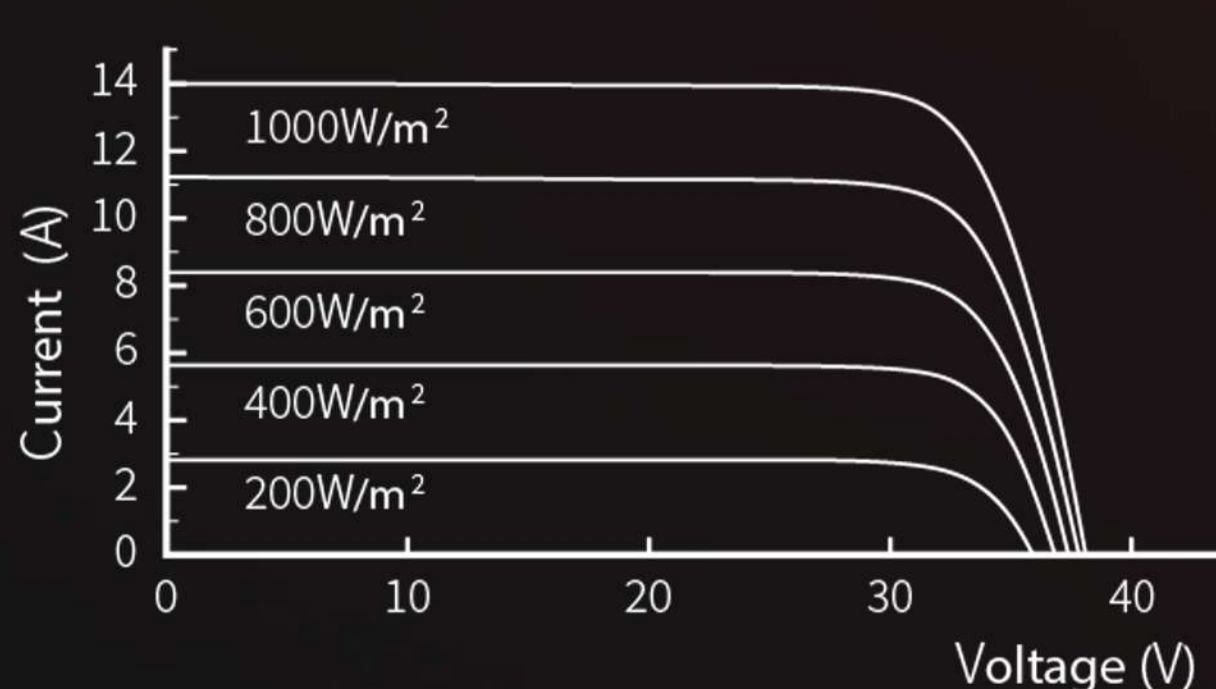
Temperature coefficient α _{Isc}	+0.046%/°C
Temperature coefficient β _{Voc}	-0.250%/°C
Temperature coefficient γ _{Pmax}	-0.300%/°C

Operating Conditions

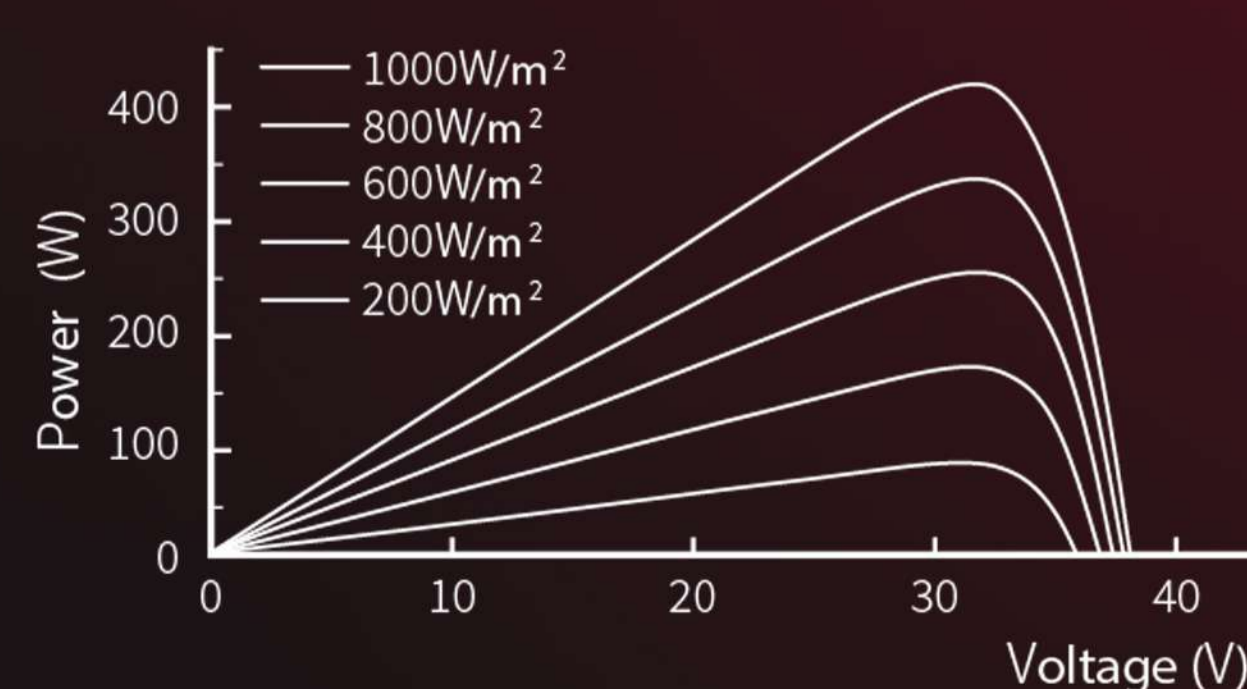
Operating temperature	-40°C ~+70°C	Nominal operating cell temperature	45±2°C
Tolerance of P _{max} and V _{oc}	±3%	Front side Max. static test loading	5400 Pa
Tolerance of I _{sc}	±4%	Rear side Max. static test loading	2400 Pa
Maximum system voltage	1500V DC	Bifaciality	80±5%
Maximum series fuse rating	30A	Power selection	0~+5W

Graphs

Current - Voltage Curve



Power - Voltage Curve



Current - Voltage Curve

