

430 Watt

FLEX430

144 Half Cell Monocrystalline Module



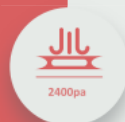
Ultra-light: Glass free module weighs 6.3 kg, 70% lighter than conventional glass modules.



Fast-Installation: Through "Quick-Bonding" installation, eArc requires no penetration, reduces time on roof and saves installation costs.



Safety: Integraton with underlying installation surface, ensuring the waterproof performance and safety performance of the roof.



Durable: FLEX430 is the first glassless module to pass the same durability tests as conventional glass modules, ncluding IEC61215:2016, IEC61730:2016 and UL61730(USA). FLEX430 has also passed PID, salt mist level 8 tests.

POWER OUTPUT RANGE 425~430 W

POWER TOLERANCE 0-5 W

12 Year Product Warranty

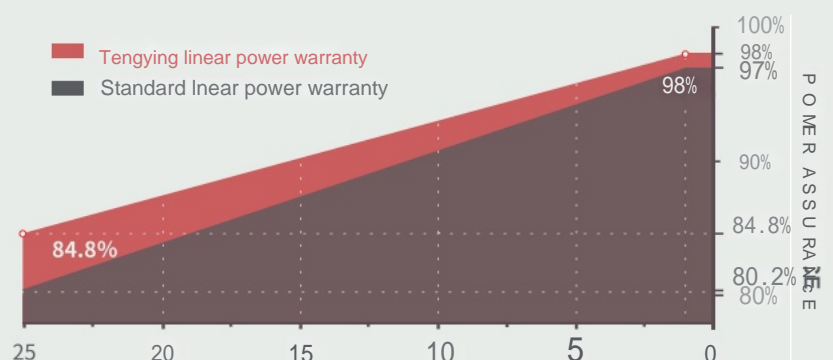
25 Year Linear Power Warranty

www.tyenergy.com

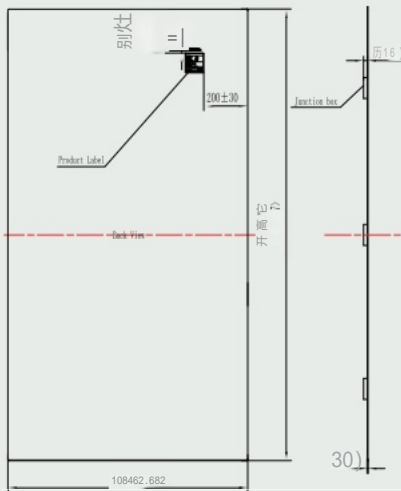
LINEAR PERFORMANCE WARRANTY

CAUTION: Read installaton manual before using the product.

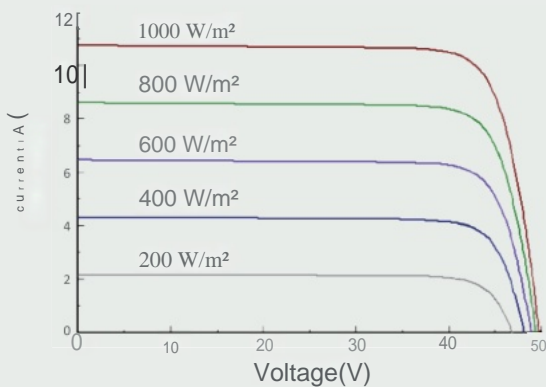
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DIMENSIONS



I-V CURVE (430)



TEMPERATURE CHARACTERISTICS

Nominal Module Operating Temperature(NMOT)	$41 \pm 2C$
Temperature Coefficient of Pmax	-0.38 %/C
Temperature Coefficient of Vo	-0.28 %/C
Temperature Coefficient of I _{sc}	0.020 %/C



ELECTRICAL CHARACTERISTICS

STC	FLEX425	FLEX430
Maximum Power(P _{max})	425	430
Maximum Power Voltage (V _m ,)	41.8	42.0
Maximum Power Current(I _{mp} ,)	10.17	10.24
Open-circuit Voltage(V _o)	49.6	49.8
Short-circuit Current(I _{sc} ,)	10.67	10.74
Module Efficiency(%)	19.1	19.3
Operating Temperature	40 to 85	
Maximum System Voltage	1500VDC(IEC)	
Maximum Series Fuse Rating	20A	
Application Class	Class A	
Power Tolerance	0/+5W	
STC:Irradiance 1000W/m ² ,Cell temperature 25C,AM=1.5. Tolerances of P _{max} ,V _o and I _{sc} are within±5%		

NMOT	FLEX425	FLEX430
Maximum Power(P _{ma})	321.4	325.1
Maximum Power Voltage(V _m ,)	38.6	38.8
Maximum Power Current(I _{mp} ,)	8.33	8.38
Open-circuit Voltage(V _o)	46.6	46.8
Short-circuit Current(I _{sc} ,)	8.64	8.69

MECHANICAL CHARACTERISTICS

Solar Cell	Monocrystalline silicon(166mm half cel)
No.of Cells	144 (12 × 12)
Module Dimensions	2054×1084×2 mm
Weight	6.3kg
Backsheet	White
Frame	Frameless
J-box	IP 68 rated
Output Cables	Photovoltaic technology cable 4.0 mm ² ,(+)-4501(-)-450 mm
Connector	MC4 compatible

PACKAGING CONFIGURATION

	20'GP	40'HC
Module per pallet	66+50	66
Pieces per container	580	1320