

HKRE 250W - 280W Monocrystalline Module



Made in Taiwan - Independent OST Factory Audit Completed

Enhance Photovoltaic Modules surpass all international recognised quality standards and are produced by one of the world's leading fully vertical integrated photovoltaic module producers on the worlds most advanced European produced fully automated robotic production lines, this process ensures exceptionally high quality, reliability and performance, even in low light



High Module Efficiency

Module efficiency up to 17.2% achieved through advanced cell technology and manufacturing capabilities.



Pass ASTM E330; Maximum wind speed: 197 km/h (safety factor 3)

(short-side installation ≥ 2400 Pa guaranteed)

Extended wind & snow load tests



Positive Power tolerance Positive tolerance of up to +4.99 watts delivers higher outputs.

Excellent weak light performance



3.5% relative efficiency reduction at low irradiance (200W/m²⁾

Anti-PID Potential Induced Degradation Test Certified according to IEC 62804.



Prolonged aging test

2000 hour damp heat test; 400 Thermal cycles



Corrosive Resistant

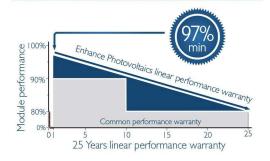
Robust design & materials ensures reliability whilst operating under the most extreme conditions such as marine or farming environments.





Superior Protection

Tyco IP 67 rated junction box protects against extreme weather conditions and dust



Comprehensive Warranty

Market leading 12.5 year product warranty

Linear Warranty

Guaranteed 25 year linear performance. Min 97% after the first year, afterwards Max 0.6% reduction p.a up to 25 years.

www.hkre.com.hk

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250W - 280W Monocrystalline Module

香港可再生能源有限公司 Hong Kong Renewable Energy Co. Ltd.

Electrical Data

Nominal Power Watt P _{max}	Wp	250	255	260	265	270	275	280
Power Output Tolerance P _{max}	W				0~+4.99			
Maximum Power Voltage V _{mpp}	٧	29.64	30.09	30.54	30.98	31.44	31.16	31.33
Maximum Power Current I	Α	8.44	8.48	8.52	8.56	8.59	8.83	8.95
Open Circuit Voltage V _{oc}	V	38.05	38.13	38.21	38.29	38.37	38.96	39.04
Short Circuit Current I _{sc}	Α	9.04	9.05	9.07	9.08	9.09	9.37	9.53
Module Efficiency n _m	%	15.4	15.7	16.0	16.3	16.6	16.9	17.2
*Electrical data under Standard Test Co	nditions	(STC): Cell	Temperature	of 25°C, Irrac	diance 1000 \	V/m², AM 1.	5	

*Values w/o tolerance are typical numbers *Specifications subject to change

Mechanical Data

Item	Specification
Dimensions	I 640mm (I) x 992mm (w) x 40mm (d)
Weight	18.5 kg
Solar Cell	60 monocrystalline 6" silicon cells (156mm x 156mm)
Front Glass	Anti-reflective tempered solar glass, 3.2mm thickness
Cell Encapsulation	EVA (Ethylene-Vinyl-Acetate)
Back Cover	Composite film
Junction Box	Tyco IP 67 rated
Frame	Anodized aluminium frame, black
0	Inc

Operating Conditions

ltem	Specification
Mechanical Load	5400pa (Certified by TUV Rheinland)
Maximum System Voltage	DC 1000 V
Series Fuse Rating	15 A
Operating Temperature	-40 to 85 °C
T	1 1 1

Temperature Characteristics

Item	Specification
Nominal Operating Cell Temperature	44.1°C ± 2°C
Temperature Coefficient of I _{sc}	0.042 % / °C
Temperature Coefficient of V_{∞}	-0.318%/℃
Temperature Coefficient of P _{max}	-0.427 % / °C
*Nominal Operating Cell Temperature (NOCT): Irrad	diance 800W/m², Ambient Temperature 20°C, Wind Speed I m/s

*Please refer to Enhance Photovoltaics standard module installation guide before using the product *Reduction in efficiency from 1000 W/m² to 200 W/m² at 25°C: 3.5% \pm 2%

Loading Volume

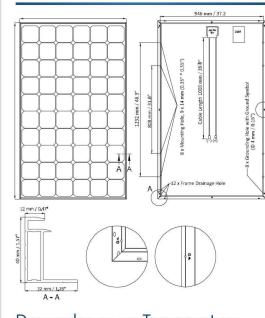
Container	728 pcs
Pallet	26 pcs

SOLFEX energy systems Units 3-5 Chamley Fold Industrial Estate Bamber Bridge, Preston Lancashire, PR5 6PS www.hkre.com.hk

Contact Details

Front & Back View

Specifications are subject to change without notice



Dependence on Temperature

