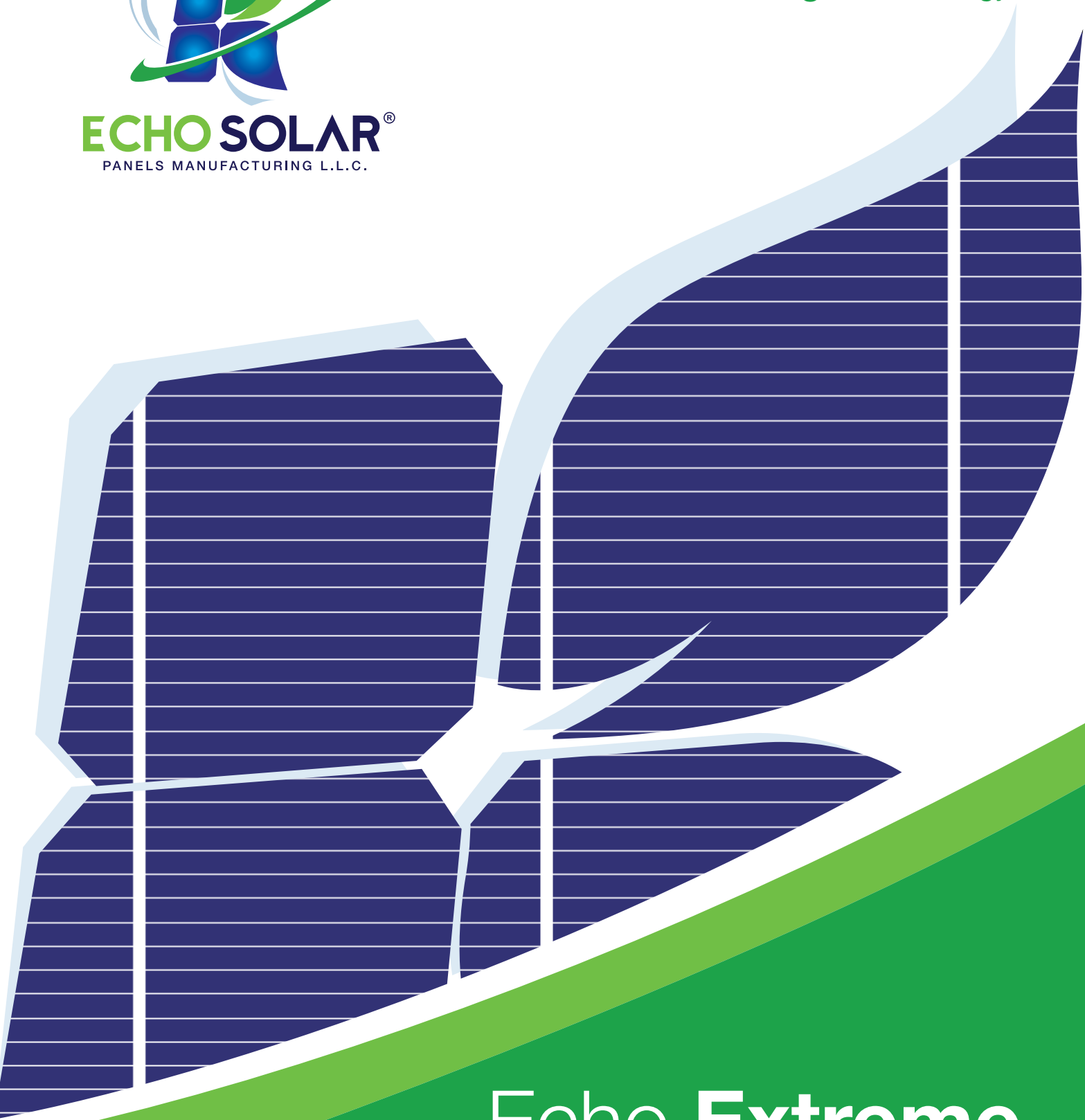




ECHO SOLAR[®]
PANELS MANUFACTURING L.L.C.

Powering Green Energy



Echo Extreme

THE PREMIUM PRODUCT



More power
per m²



Robust &
Durable Design



100%
PID FREE



Low
LID

info@echosolarae.com
www.echosolaruae.com

ECHO EXTREME

POLY-CRYSTALLINE MODULE

AAA-CLASS



AAA Class
German Technology
Positive Power + 3%



ECHO Modules are manufactured at the highest levels in Dubai with state of art manufacturing facility having elevated feature and unsurpassed performance.

ECHO QUALITY CONTROL

Material Inspection



Process Monitoring



Functionality Check



Quality Reports



Module Packaging



Multi-crystalline modules designed for residential, commercial and utility applications - rooftop or ground mount.



4 & 5Bus-bar Solar Cell

Cutting Edge Technology Thoroughly methodically & carefully designed by professionals to improve the Efficiency of module.



PID Free

PID Free

Long-term yield security with Anti-PID Technology



Resistance to Salt corrosion & Humidity

Module complies with IEC 61701



High Strength Design

Module complies with advanced load Test



IP67 Rating Junction Box

Advanced Water and Dust Proof Level



Superior Performance at High Temperature

Less power loss



Low-light Performance

Advanced glass and solar cell performance in low-light environments



Safe Electronics

Protection against short circuits and thermally induced power losses due to potted junction box and welded cables.



100 % EL testing Pre-EL & Post EL



Anti-reflective and anti-soiling surface reduces power loss from dirt and dust

PERFORMANCE | STC (I_r: 1000 W/m², Temp: 25°C, AM: 1.5)

Module Type	EP250	EP255	EP260	EP265	EP270	EP275
Maximum Power(P _{max})	250W	255W	260W	265W	270W	275W
Number of Cells	60	60	60	60	60	60
Open Circuit Voltage(V _{oc})	37.62V	37.68V	37.86V	38.10V	38.28V	38.40V
Short Circuit Current(I _{sc})	8.44A	8.51A	8.64A	8.74A	8.82A	8.90A
Maximum Power Voltage(V _{pm})	31.55V	31.80V	31.91V	32.15V	32.36V	32.53V
Maximum Power Current(I _{pm})	7.93A	8.02	8.15A	8.27A	8.35A	8.46A
Module Efficiency(η)	15.30%	15.69%	15.98%	16.28%	16.59%	16.90%
Operating Temperature	-40 to 85°C					
Maximum System Voltage	1000V					
Maximum Fuse Rating	15A					
Power Tolerance	0~+5W					
Temperature Co-efficient V _{oc}	-0.28%/°C					
Temperature Co-efficient P _{max}	-0.38%/°C					
Temperature Co-efficient I _{sc}	0.03%/°C					

PERFORMANCE | NOCT (I_r: 800 W/m², Ambient Temp: 20°C, Wind speed: 1m/s)

Module Type	EP250	EP255	EP260	EP265	EP270	EP275
Maximum Power(P _{max})	186W	190W	194W	198W	202W	205W
Open Circuit Voltage(V _{oc})	34.41V	34.47V	34.53V	34.75V	34.91V	35.01V
Short Circuit Current(I _{sc})	6.94A	6.99A	7.05A	7.13A	7.22A	7.30A
Maximum Power Voltage(V _{pm})	28.41V	28.60V	28.95V	29.20V	29.41V	29.72V
Maximum Power Current(I _{pm})	6.56A	6.65A	6.71A	6.79A	6.88A	6.91A
Nominal Operating Cell Temp.	45±2°C					

MECHANICAL PROPERTIES

Cells	ARC coated cells
Cell Type	Poly-crystalline
Cell Dimension	156X156mm
Module Dimensions	1640X992X35mm
Module Weight	18 Kgs.
Junction-Box	IP67
Connectors Type	MC4 Compatible
Cable Length	1000mm
Front Cover	Low Iron Tempered Textured Glass
Back Cover	Weather resistant back sheet
Frame	High strength Anodized aluminum frames
Front Load Capacity	5400Pa
Rear Load Capacity	2400Pa

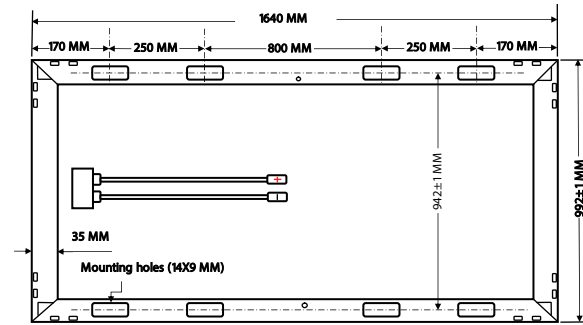
CERTIFICATES & WARRANTY

Certificates	ISO 9001:2015
	IEC 61215, IEC 61730 - I & II
	IEC 61701 (Maximum Severity)
	IEC 62716
Module Fire Rating	CLASS A
Product Warranty	10 Years
Linear Output Warranty Power	25 Years

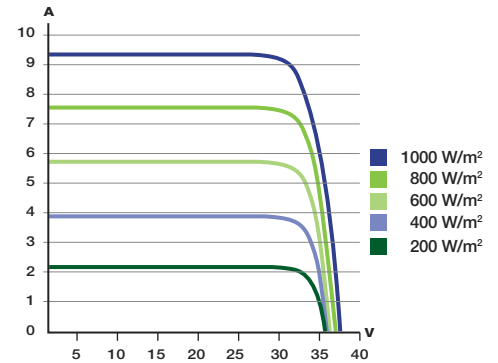
LOADING QUANTITY

No. of Modules Per Pallet	30 Modules	
No. of Palletes in 20 ft. Container	12 Palletes	360 Modules
No. of Palletes in 40ft. HQ Container	28 Palletes	840 Modules

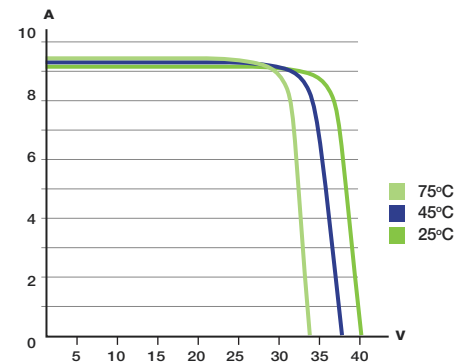
MODULE BACK VIEW



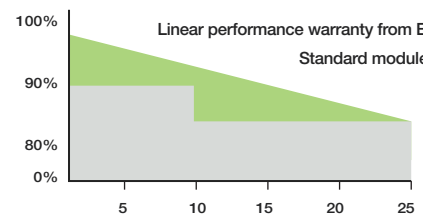
IV CHARACTERISTICS @ LOW IRRADIANCE



IV CHARACTERISTICS @ TEMPERATURES



LINEAR PERFORMANCE WARRANTY



60 Cells
Poly-Crystalline



250W - 275W
Power Output



16.90%
Efficiency



0~+5W
Power



PROUDLY MADE IN UAE



Echo Solar Panels Manufacturing L.L.C.

P.O.Box: 454429, Dubai, UAE,
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Community 598 - 1212, Street - 55, #5.

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