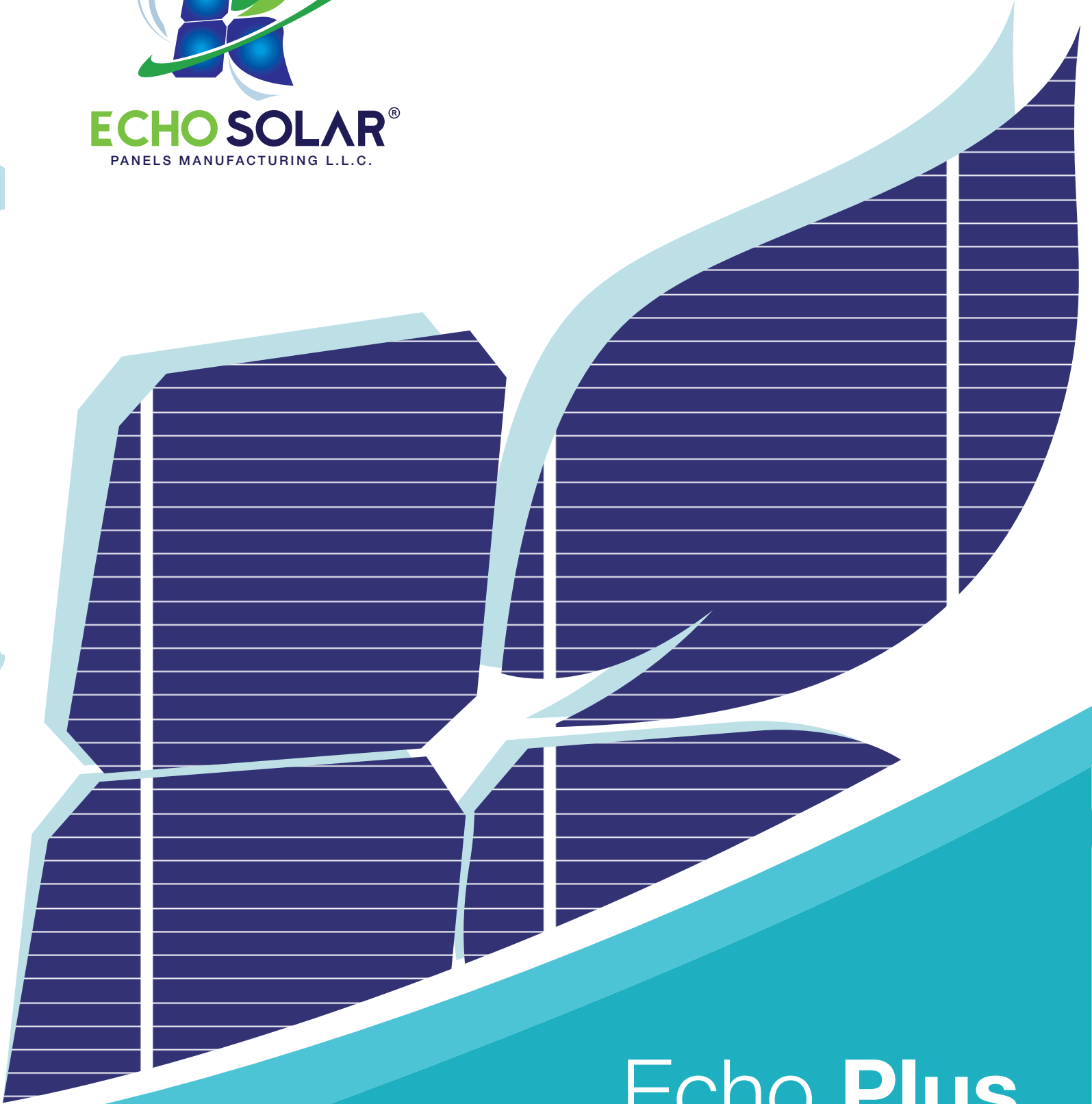




ECHO SOLAR[®]
PANELS MANUFACTURING L.L.C.

Powering Green Energy



Echo Plus

HIGH ENERGY DENSITY PRODUCT



More power
per m²



Robust &
Durable Design



100%
PID FREE



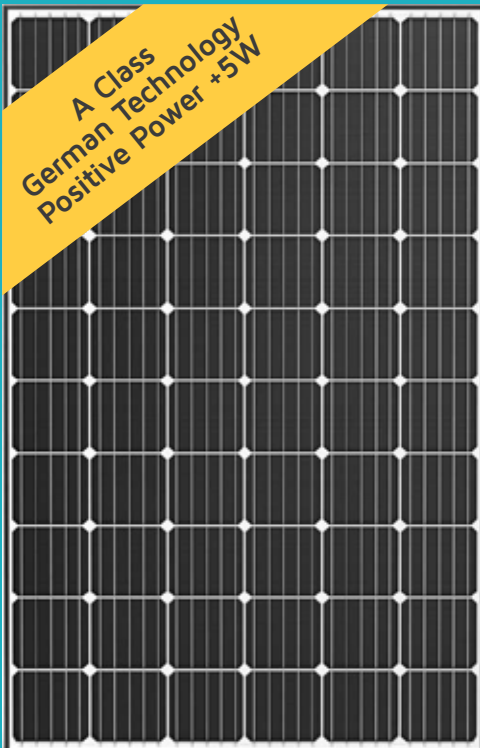
Low
LID

info@echosolarae.com
www.echosolaruae.com

ECHO PLUS

MONO-CRYSTALLINE MODULE

A-CLASS



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

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 (Ir: 1000 W/m², Temp: 25°C, AM: 1.5)

Module Type	EM345	EM350	EM355	EM360
Maximum Power(Pmax)	345W	350W	355W	360W
Number of Cells	72	72	72	72
Open Circuit Voltage(Voc)	46.75V	47.08V	47.37V	47.73V
Short Circuit Current(Isc)	9.45A	9.48A	9.51A	9.54A
Maximum Power Voltage(Vpm)	39.71V	40.05V	40.57V	40.69V
Maximum Power Current(Ipm)	8.69A	8.75A	8.81A	8.87A
Module Efficiency(η)	17.78%	18.04%	18.30%	18.56%
Operating Temperature	-40 to 85°C			
Maximum System Voltage	1000V			
Maximum Fuse Rating	15A			
Power Tolerance	0~+5W			
Temperature Co-efficient Voc	-0.26%/°C			
Temperature Co-efficient Pmax	-0.35%/°C			
Temperature Co-efficient Isc	0.02%/°C			

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

Module Type	EM345	EM350	EM355	EM360
Maximum Power(Pmax)	257.40W	261.57W	265.56W	269.51W
Open Circuit Voltage(Voc)	43.0V	43.31V	43.58V	43.91V
Short Circuit Current(Isc)	7.71A	7.74A	7.76A	7.78A
Maximum Power Voltage(Vpm)	36.0V	36.33V	36.63V	36.92V
Maximum Power Current(Ipm)	7.15A	7.25A	7.25A	7.30A

MECHANICAL PROPERTIES

Cells	ARC coated cells
Cell Type	Mono-crystalline
Cell Dimension	156X156mm
Module Dimensions	1956X992X40mm
Weight	21 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

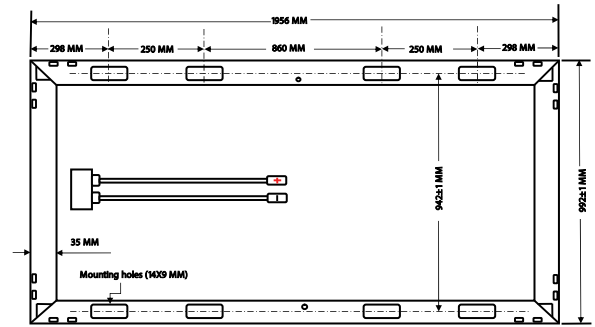
CERTIFICATES & WARRANTY

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

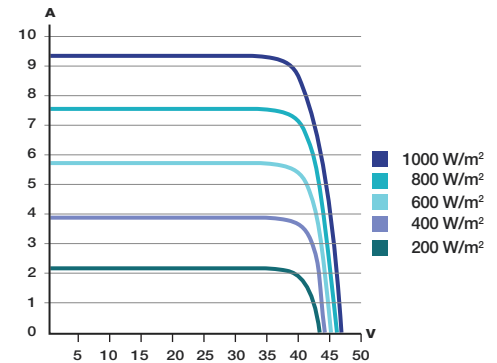
LOADING QUANTITY

No. of Modules Per Pallet	30 Modules	
No. of Palletes in 20 ft. Container	10 Palletes	300 Modules
No. of Palletes in 40ft. HQ Container	24 Palletes	720 Modules

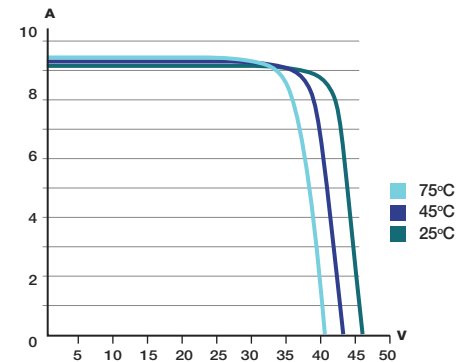
MODULE BACK VIEW



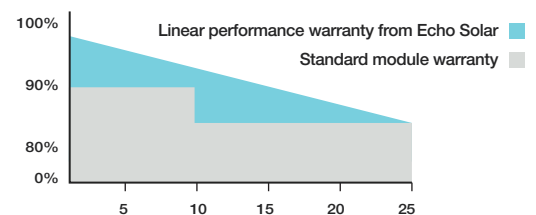
IV CHARACTERISTICS @ LOW IRRADIANCE



IV CHARACTERISTICS @ TEMPERATURES



LINEAR PERFORMANCE WARRANTY



72 Cells
Mono-Crystalline



345W - 360W
Power Output



18.56%
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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