

ECO DELTA High Efficiency Mono SHINGLED MODULE
ECO-415-435M-72SA



Higher Module Efficiency
Brings 0-+3W positive tolerance on label rating power provides higher Kwh



INNOVATIONAL SHINGLED MODULE TECHNOLOGY
Larger light receiving area to improves the module output, decreases the risk of mirco-crack, enhances the module reliability.



INNOVATIVE PERC CELL TECHNOLOGY
Excellent cell efficiency and output.



REDUCE SHADOW LOSS
Effectively reduces the effect of shadow on the module surface.



REDUCE INTERNAL MISMATCH LOSS
Reduces mismatch loss and improves output.



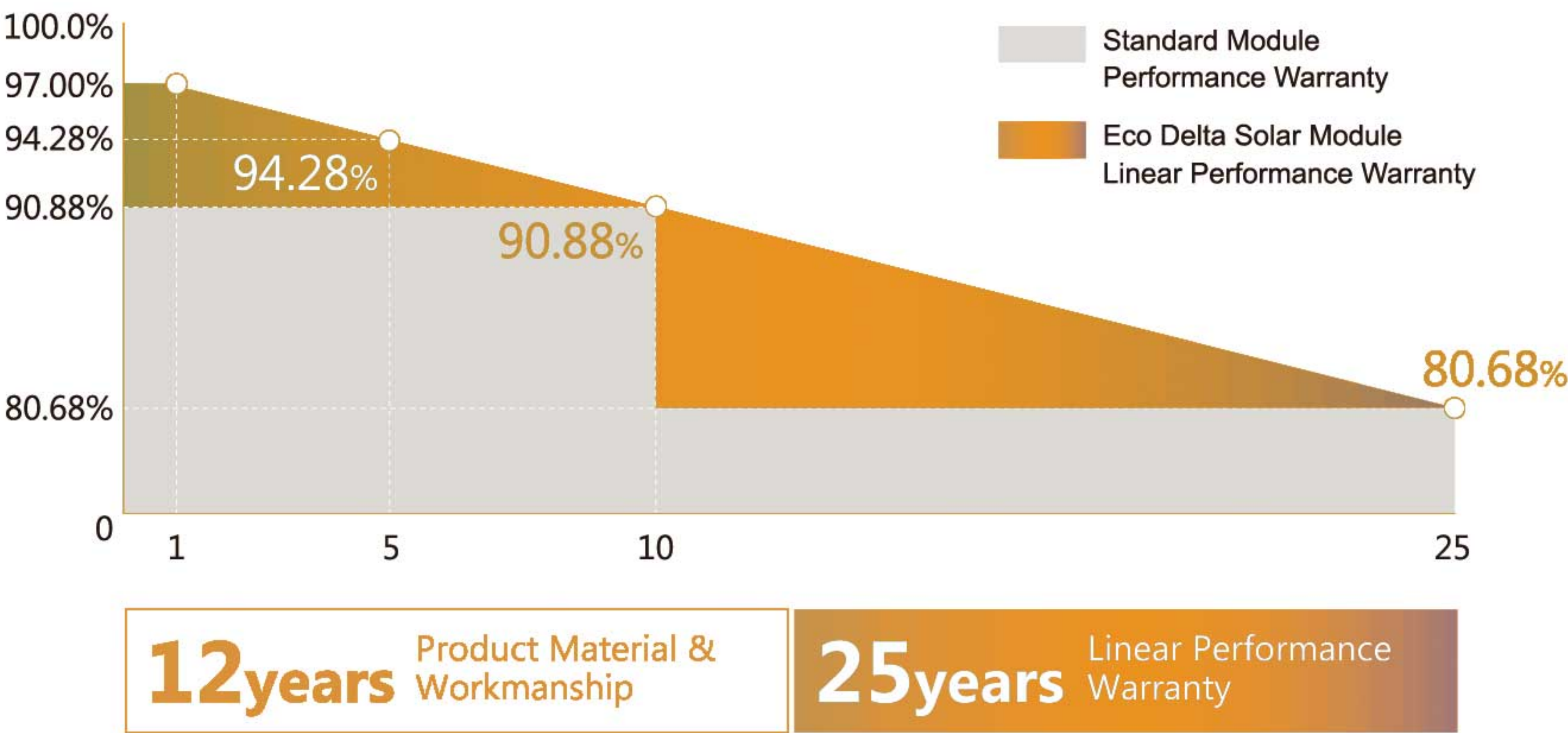
PASSED HAIL TEST
Certified to hail resistance: ice ball size (d=45mm) and ice ball velocity (v=30.7m/s).



PID RESISTANCE
Excellent PID resistance at 96 hours (@85°C/85%) test, and also can be improved to meet higher standards for the particularly harsh environment



PERFORMANCE WARRANTY



QUALITY WARRANTY

Eco Delta guarantees that defects will not appear in materials and workmanship defined by IEC61215 or IEC61730 under normal installation, use and maintenance as specified in Eco Delta's installation manual for 12 years from the warranty starting date.

ISO9001
ISO14001
OHSAS18001



About Eco Delta

Eco Delta Power Co.,Ltd specializes in research, development, production, and sales of solar PV products as well as provision of related services and provides customers around the world with high-quality PV products.

www.ecodeltapower.com

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ELECTRICAL DATA @ STC		ECO-415M-72SA	ECO-420M-72SA	ECO-425M-72SA	ECO-430M-72SA	ECO-435M-72SA
Peak Power(Pmax)	(W)	415	420	425	430	435
Maximum Power Voltage (Vmp)	(V)	37.20	37.40	37.60	37.80	38.00
Maximum Power Current(Imp)	(A)	11.16	11.23	11.30	11.38	11.45
Open-circuit Voltage (Voc)	(V)	45.90	46.00	46.00	46.10	46.20
Short-circuit Current(Isc)	(A)	11.87	11.93	11.98	12.03	12.08
Module Efficiency	(%)	19.44	19.68	19.91	20.15	20.38
Operating Temperature		-40°C~+85°C				
Maximum System Voltage		□ 1000V □ 1500V				
Maximum Series Fuse Rating		15A				
Power Telorance		0~+3%				

*STC (Standard Test Condition): Irradiance 1000W/ m² , Module Temperature 25°C, AM 1.5

ELECTRICAL DATA @ NMOT		ECO-415M-72SA	ECO-420M-72SA	ECO-425M-72SA	ECO-430M-72SA	ECO-435M-72SA
Peak Power(Pmax)	(W)	312	316	320	324	328
MPP Voltage (Vmp)	(V)	35.46	35.65	35.84	36.03	36.23
MPP Current(Imp)	(A)	8.81	8.87	8.93	8.98	9.04
Open Circuit Voltage (Voc)	(V)	43.76	43.85	43.85	43.95	44.04
Short Circuit Current(Isc)	(A)	9.56	9.61	9.65	9.69	9.73

*Under Nominal Module Operating Temperature (NMOT), Irradiance of 800W/ m² , Spectrum AM 1.5, Ambient Temperature 20°C, Wind Speed 1m/s

TEMPERATURE CHARACTERISTICS		
Temperature coefficient of Pmax		-0.34%
Temperature coefficient of Voc		-0.27%
Temperature coefficient of Isc		0.04%
NMOT		42±2°C

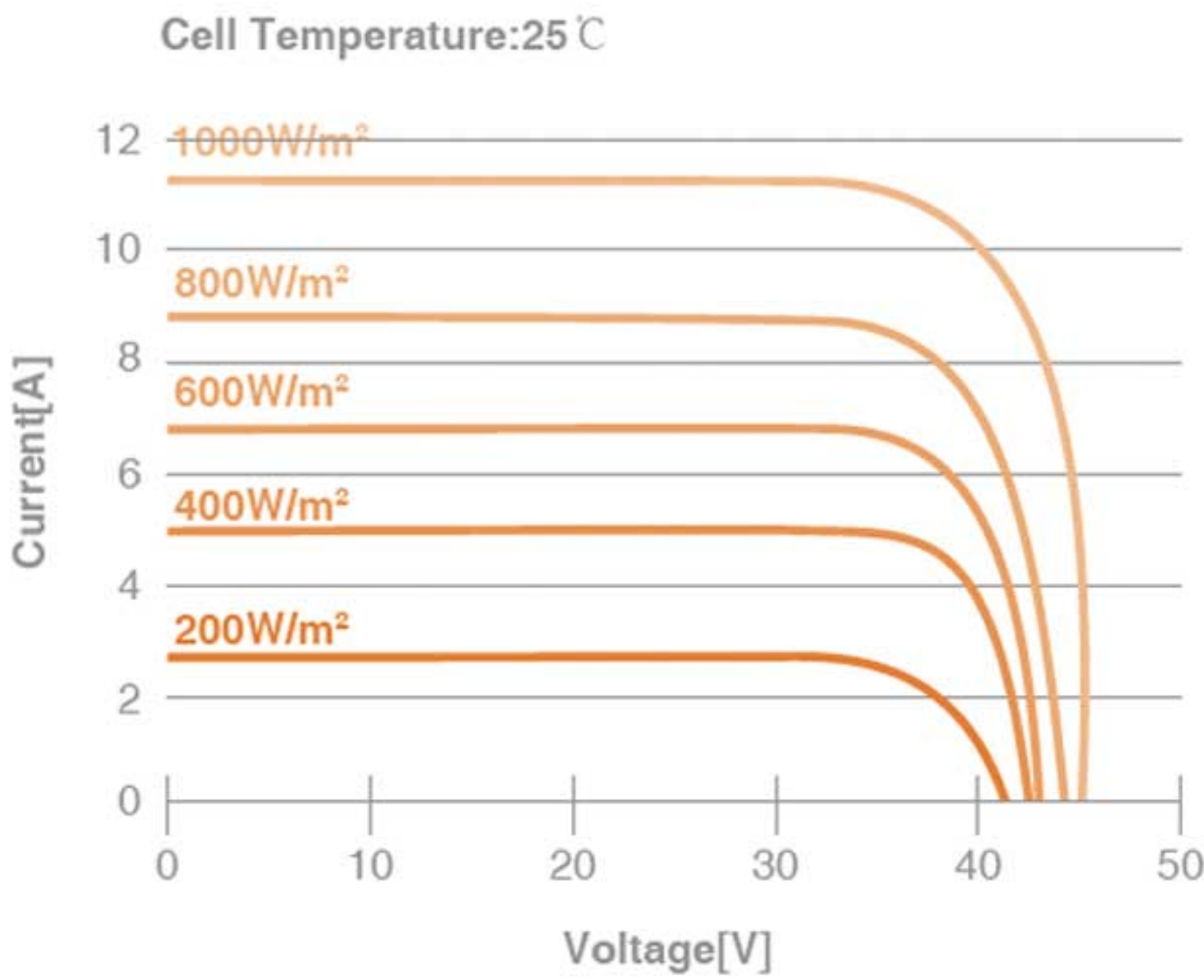
MECHANICAL DATA		
Cell Type		Mono-Crystalline, 158.75*158.75mm
Cell Arrangement		60pcs
Dimension (L×W×H)		1969 x 1084 x 35 mm
Weight		25kg
Front Cover		3.2mm Tempered Glass
Frame		Anodized Aluminium Alloy
Junction Box		IP67, 3 Bypass Diodes
Cable Type		4mm²
Length of Cable		1200mm
Connector		PV Connector

OPTIONAL		
Frame		□ Black
Backsheet		□ Black
Connector		□ Original MC4
Cable		□ Customized
Module Size		□ Customized

PACKING MANNER		
Packing Type		40'HQ
Piece/Pallet		30
Piece/Container		660

*The specification and key features described in this datasheet may deviate slightly and are not guaranteed. Due to ongoing innovation, R&D enhancement, ECO DELTA POWER CO., LTD Reserves the right to make any adjustment to the information described herein at any time without notice. Please always obtain the most recent version of the datasheet which shall be duly incorporated into the binding contract made by the parties governing all transactions related to the purchase and sale of the produccets described herein.

Current-Voltage Curve under different irradiance



Current-Voltage Curve under different working temperatures

