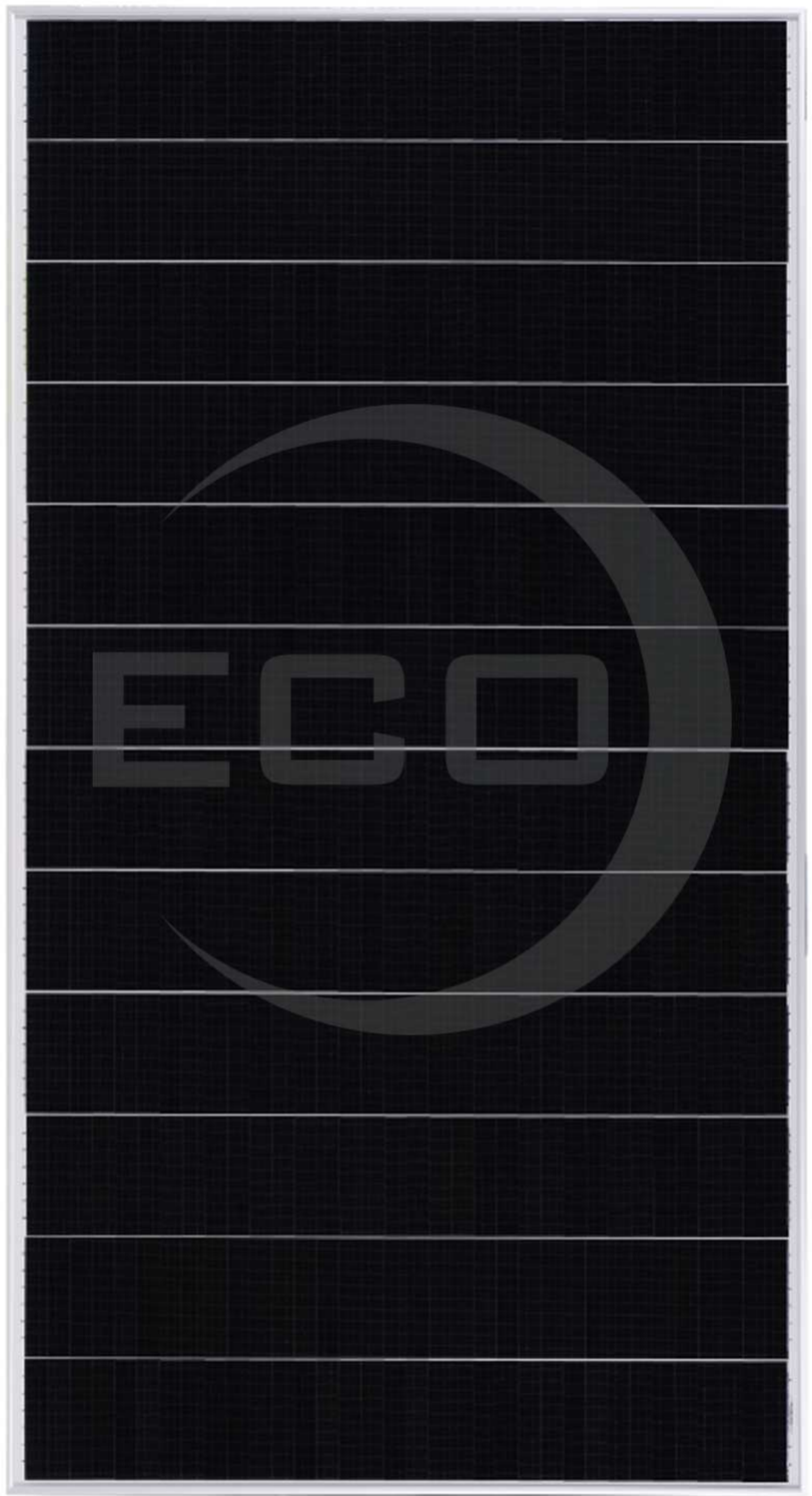
ECO DELTA High Efficiency 166 Mono SHINGLED MODULE

ECO-470-490M-72SB



Higher Module Efficiency
Brings 0-+5W 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.

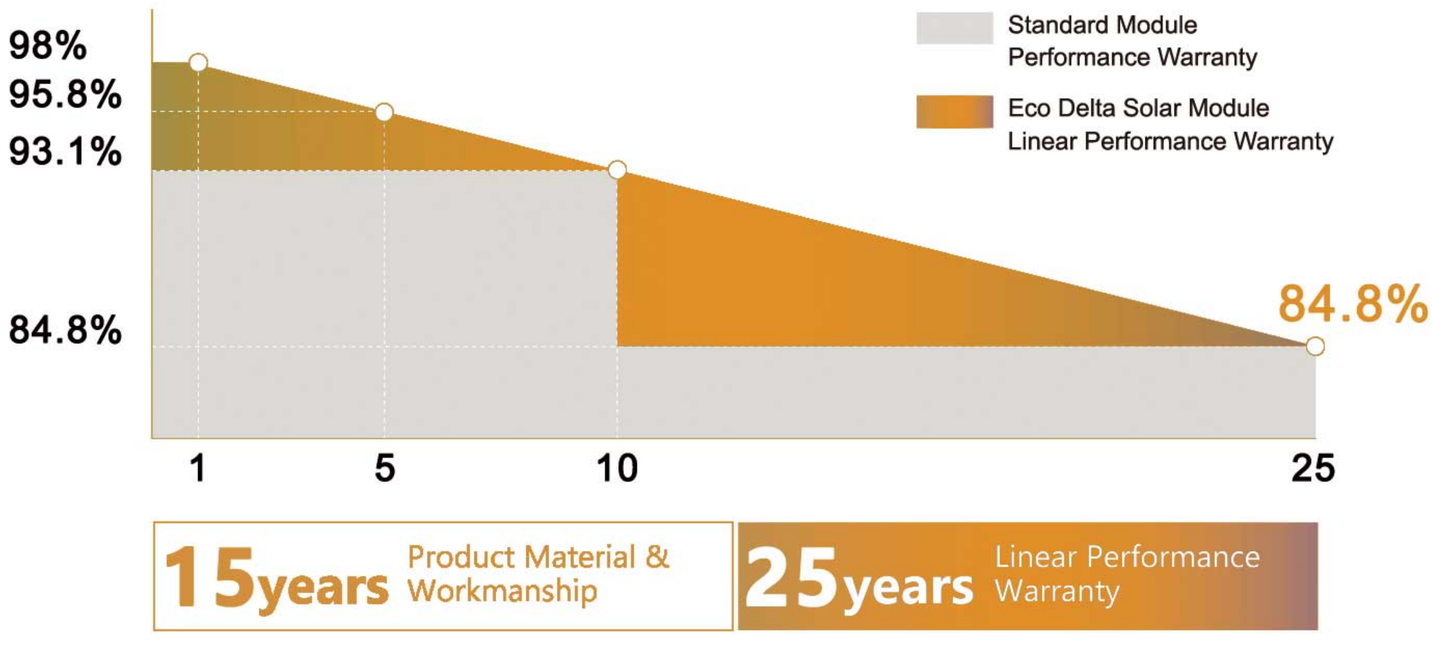
REDUCE SHADOW LOSS
Effectively reduces the effect of shadow on the module surface.

REDUCE INTERNAL MISMATCH LOSS
Reduces mismatch loss and improves output.

PASSED HAIL TEST
Certified to hail resistence: 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

LINEAR PERFORMANCE WARRANTY



15years Product Material & Workmanship

25years Linear 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 15 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

ECO DELTA High Efficiency 166 Mono SHINGLED MODULE

ECO-470-490M-72SB

ELECTRICAL DATA @ STC		ECO-470M-72SB	ECO-475M-72SB	ECO-480M-72SB	ECO-485M-72SB	ECO-490M-72SB
Peak Power(Pmax)	(W)	470	475	480	485	490
Maximum Power Voltage (Vmp)	(V)	38.60	38.70	38.80	38.80	38.90
Maximum Power Current(Imp)	(A)	12.18	12.27	12.37	12.50	12.60
Open-circuit Voltage (Voc)	(V)	46.40	46.50	46.60	46.60	46.70
Short-circuit Current(Isc)	(A)	13.04	13.10	13.16	13.22	13.28
Module Efficiency	(%)	20.10	20.30	20.50	20.70	20.90
Operating Temperature		-40°C~+85°C				
Maximum System Voltage		☐1500V				
Maximum Series Fuse Rating		20A				
Power Telorance		0~5W				

*STC (Standard Test Condition): Irradiance 1000W/ ㎡ , Module Temperature 25°C, AM 1.5
*Performance deviation of Voc [V], Isc [A], Vm [V] and Im [A] : ±3%

ELECTRICAL DATA @ NMOT		ECO-470M-72SB	ECO-475M-72SB	ECO-480M-72SB	ECO-485M-72SB	ECO-490M-72SB
Peak Power(Pmax)	(W)	354	358	361	365	369
MPP Voltage (Vmp)	(V)	36.80	36.90	37.00	37.00	37.10
MPP Current(Imp)	(A)	9.62	9.69	9.77	9.87	9.95
Open Circuit Voltage (Voc)	(V)	44.20	44.30	44.40	44.40	44.50
Short Circuit Current(Isc)	(A)	10.52	10.57	10.62	10.67	10.72

*Under Nominal Module Operating Temperature (NMOT), Irradiance of 800W/ ㎡ , 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

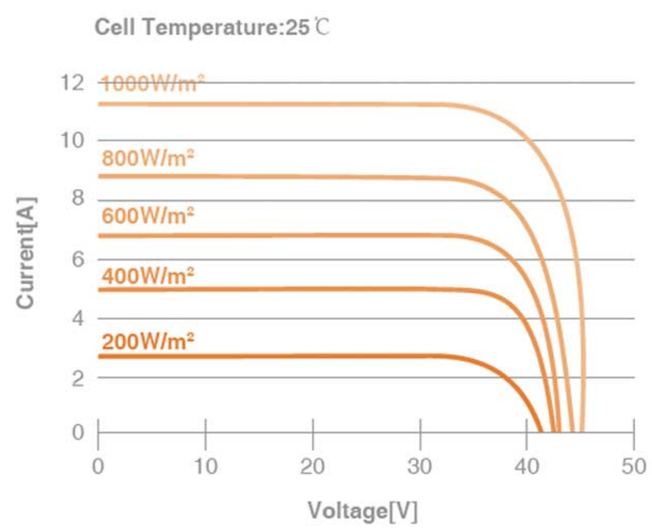
MECHNICAL DATA	
Cell Type	Mono, 166*33.2mm cut 1/5
Cell Arrangement	408pcs (1/5 , 166)
Dimension (L×W×H)	2056 x 1140 x 35 mm
Weight	25kg
Front Cover	3.2mm Tempered Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP67, 2 Bypass Diodes
Cable Type	4mm²
Length of Cable	1200mm
Connector	PV Connector

OPTIONAL	
Frame	☐Black
Backsheet	☐Black
Connector	☐Original MC4
Cable	☐Customized
Junction Box	☐IP68

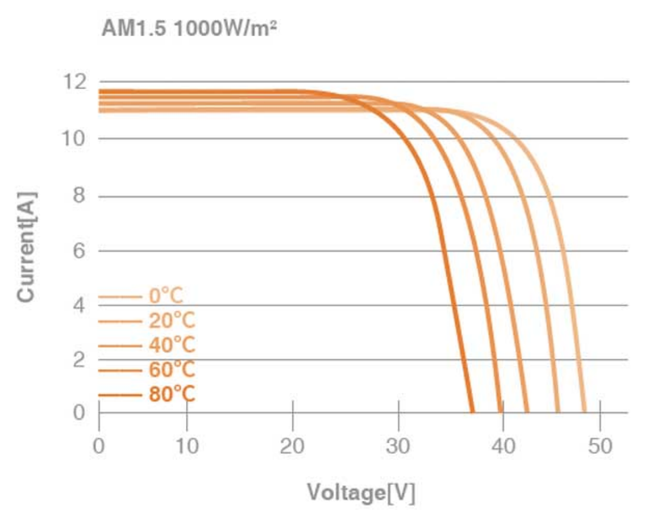
PACKING MANNER	
Packing Type	40'HQ
Piece/Pallet	30
Piece/Container	660

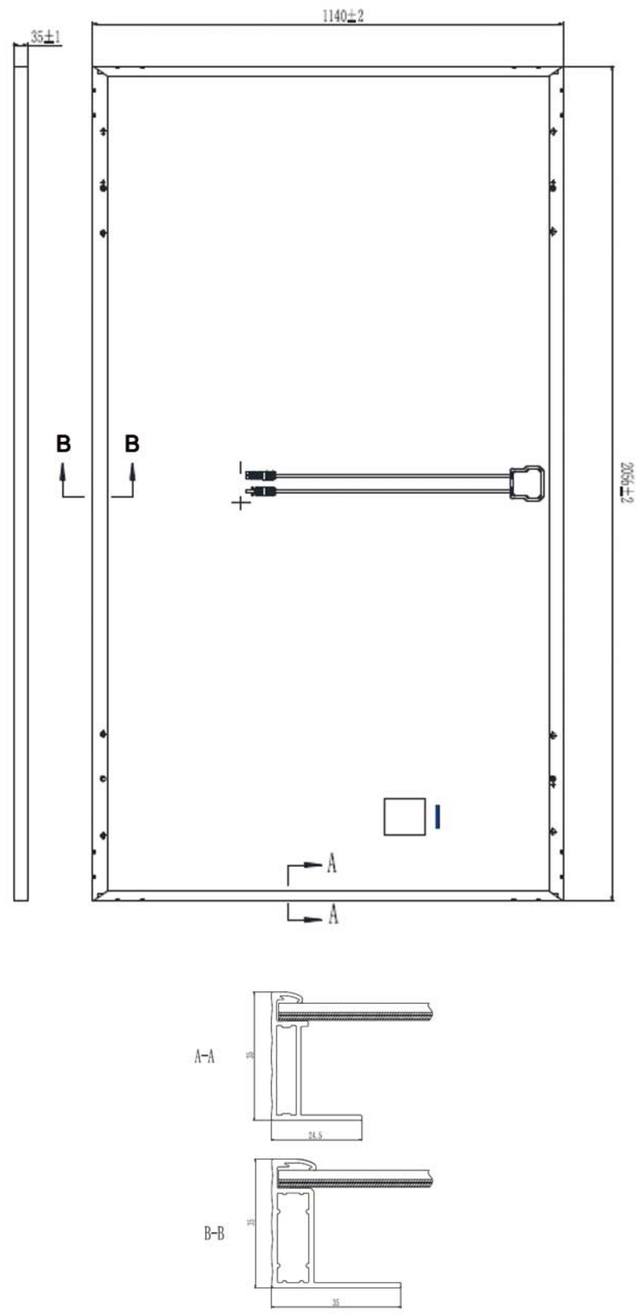
*The specification and key features described in this datasheet may deviate slightly and are not guaranteed. Due to ongoing innovation, R&D enhancement, ECO DELTA POWER CO., LTD Reserves the right to make any adjustment to the information described herein at any time without notice. Please always obtain 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 produccts described herein.

Current-Voltage Curve under different irradiance



Current-Voltage Curve under different working temperatures





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