

ECO DELTA MBB Mono Third-Cut 210 Cell PV Module

ECO-490-510M-66LHC(50T)



INNOVATIONAL THIRD-CUT CELL TECHNOLOGY

Large area cells based on 210mm silicon wafers and 1/3-cut cell technology
Up to 21.2% module efficiency with high density interconnect technology



OPTIMIZED BUSBAR NUMBER

New circuit design
Lower internal current, lower internal loss



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).

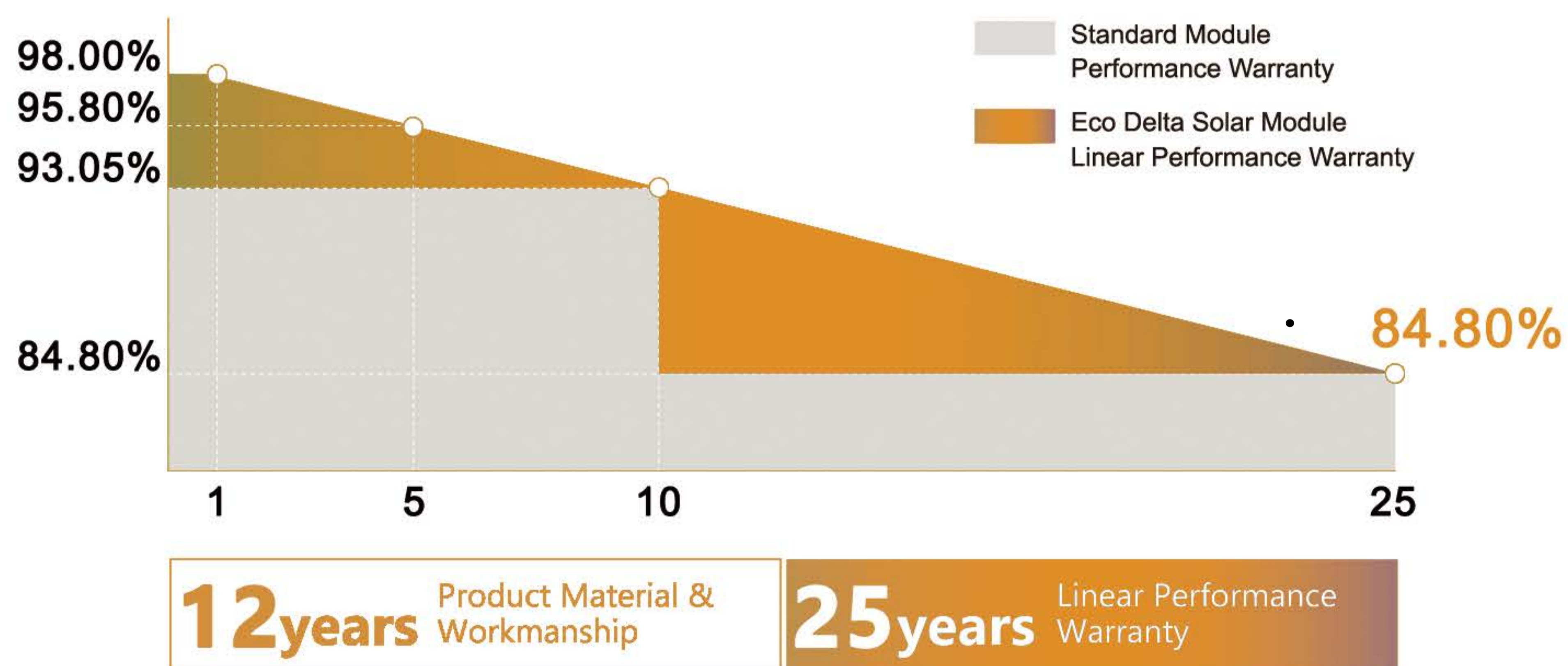


PID RESISTANCE

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



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 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-490M-66 LHC	ECO-495M-66 LHC	ECO-500M-66 LHC	ECO-505M-66 LHC	ECO-510M-66 LHC
Peak Power(Pmax)	(W)	490	495	500	505	510
Maximum Power Voltage (Vmp)	(V)	42.40	42.60	42.80	43.00	43.20
Maximum Power Current(Imp)	(A)	11.56	11.63	11.69	11.75	11.81
Open-circuit Voltage (Voc)	(V)	51.30	51.50	51.70	51.90	52.10
Short-circuit Current(Isc)	(A)	12.14	12.21	12.28	12.35	12.42
Module Efficiency	(%)	20.30	20.50	20.70	21.00	21.20
Operating Temperature		-40°C~+85°C				
Maximum System Voltage		□1500V				
Maximum Series Fuse Rating		20A				
Power Tolerance		0~+3%				

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

ELECTRICAL DATA @ NMOT		ECO-490M-66 LHC	ECO-495M-66 LHC	ECO-500M-66 LHC	ECO-505M-66 LHC	ECO-510M-66 LHC
Peak Power(Pmax)	(W)	369	373	377	381	385
MPP Voltage (Vmp)	(V)	40.00	40.20	40.40	40.60	40.80
MPP Current(Imp)	(A)	9.22	9.28	9.33	9.38	9.50
Open Circuit Voltage (Voc)	(V)	48.20	48.40	48.60	48.80	49.00
Short Circuit Current(Isc)	(A)	9.78	9.84	9.90	9.95	10.01

*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%/k
Temperature coefficient of Voc	-0.25%/k
Temperature coefficient of Isc	0.04%/k
NMOT	43±2°C

MECHANICAL DATA

Cell Type	Mono-Crystalline, 210*70mm
Cell Arrangement	150pcs (2(5*15))
Dimension (L*W*H)	2185 x 1098 x 35 mm
Weight	26.5kg
Front Cover	3.2mm Tempered Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP68, 3 Bypass Diodes
Cable Type	4mm ²
Length of Cable	1200mm
Connector	PV Connector

OPTIONAL

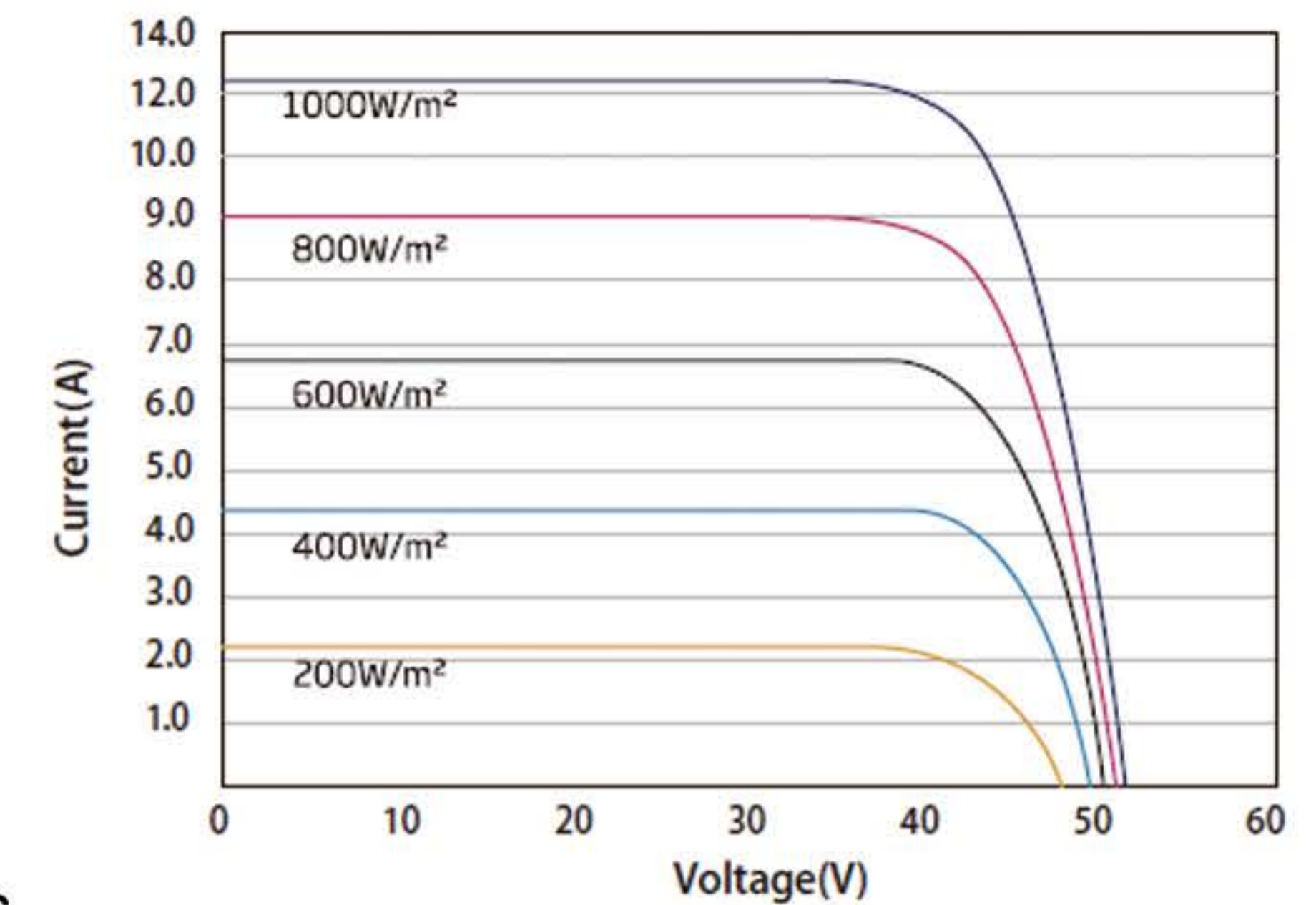
Frame	□Black
Backsheet	□Black
Connector	□Original MC4
Cable	□Customized
Module Size	□Customized

PACKING MANNER

Packing Type	40'HQ
Piece/Pallet	30
Piece/Container	600

*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 products described herein.

Current-Voltage Curve under different irradiance



Current-Voltage Curve under different working temperatures

