# ECO DELTA 5BB Mono Half-cut Cell Double-glass-bifacial Module

# ECO-310-325M-60HC-DGDF





# **Higher Module Efficiency**

Brings 0-+3W Power gain due to half-cut producation system



#### **INNOVATIONAL 5-BUSBAR CELLS**

Reduces the cell series resistance and internal stress, decreases the risk of mirco-crack and improves the module output.



#### **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).

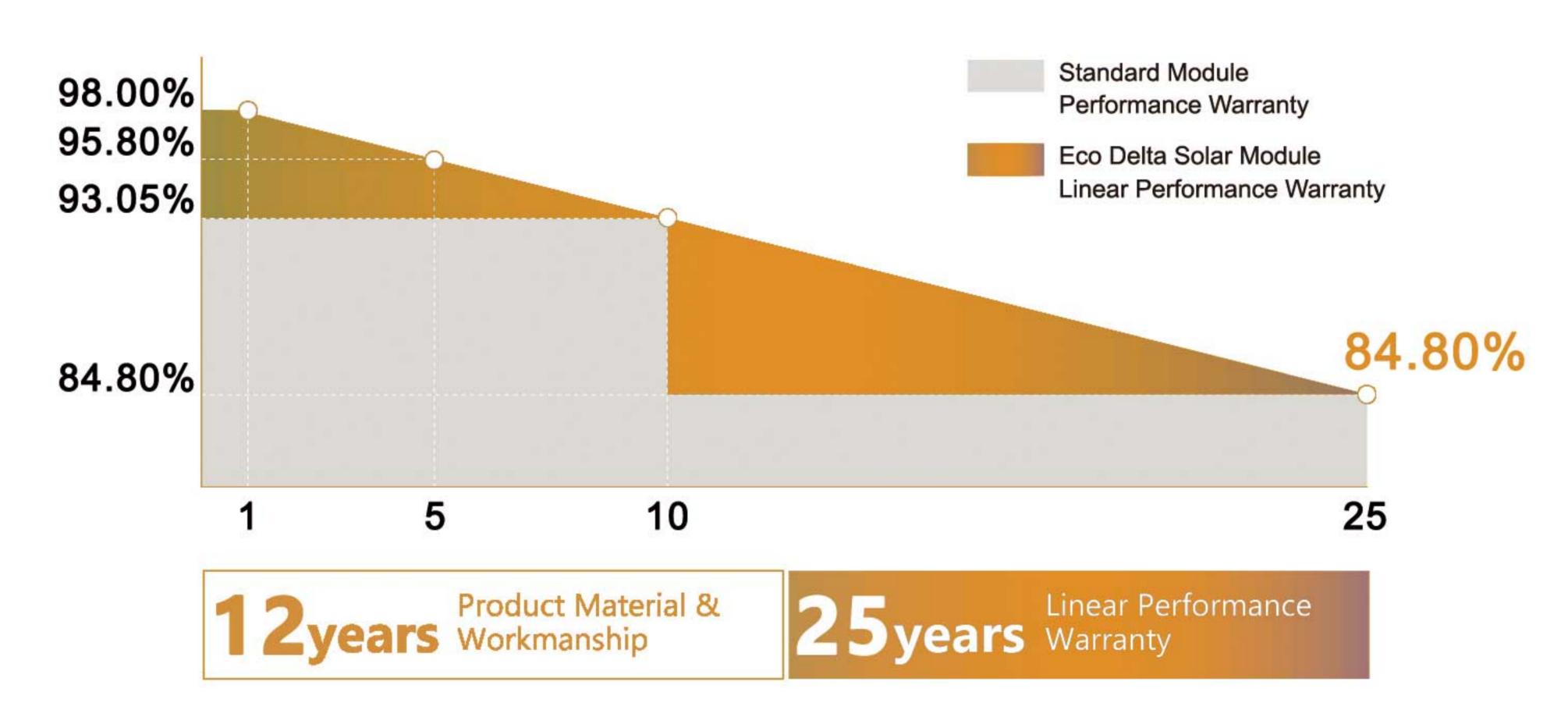


#### PID RESISTANCE

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



## **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













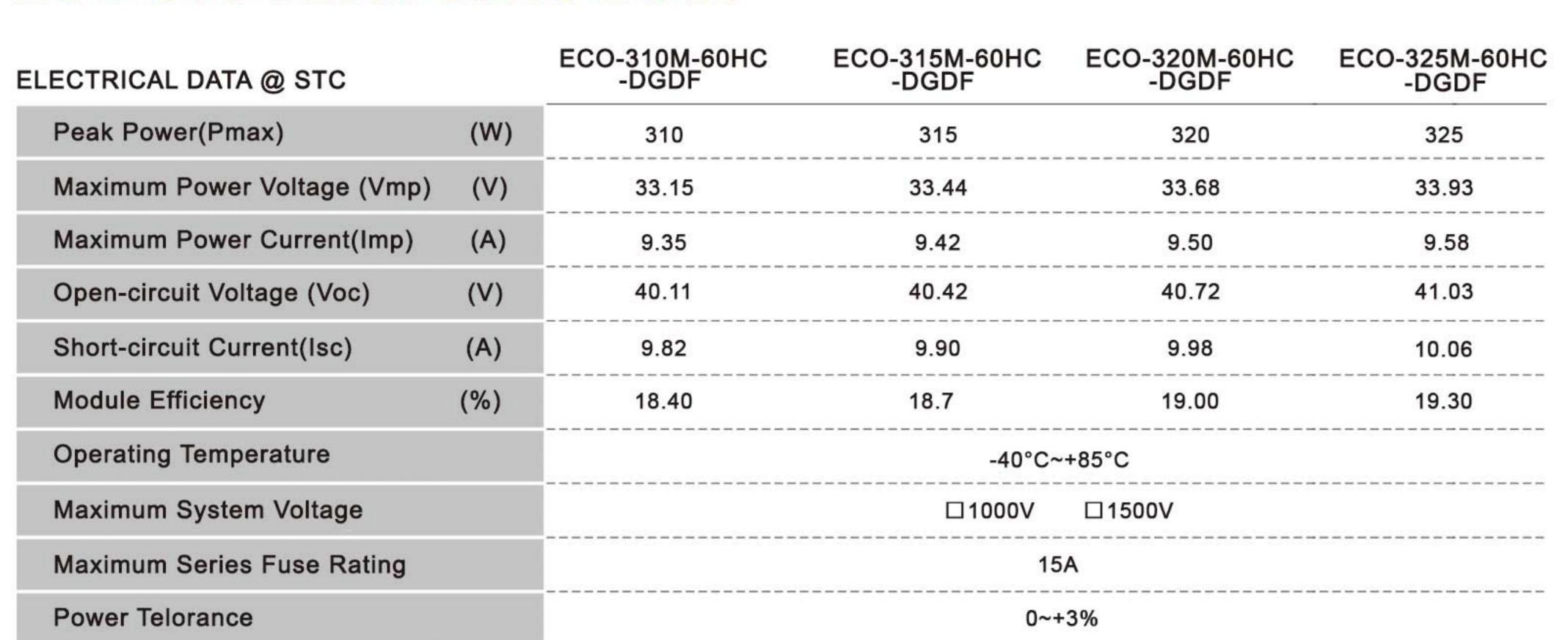






# ECO DELTA 5BB Mono Half-cut Cell Double-glass-bifacial Module







ELECTRICAL DATA @ NMOT		ECO-310M-60HC -DGDF	ECO-315M-60HC -DGDF	ECO-320M-60HC -DGDF	ECO-325M-60HC -DGDF
Peak Power(Pmax)	(W)	227	231	235	238
MPP Voltage (Vmp)	(V)	30.54	30.80	31.02	31.25
MPP Current(Imp)	(A)	7.46	7.52	7.58	7.64
Open Circuit Voltage (Voc)	(V)	37.21	37.50	37.77	38.06
Short Circuit Current(Isc)	(A)	7.90	7.96	8.03	8.09

\*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	-0.36%
Temperature coefficient of Voc	-0.26%
Temperature coefficient of Isc	0.04%
NMOT	41±3°C

#### MECHNICAL DATA

Cell Type	Mono-Crystalline, 156.75*78.375mm	
Cell Arrangement	120pcs (2×(6×10))	
Dimension (L×W×H)	1692×994×30mm	
Weight	25.0kg	
Front Cover	2.5mm Tempered Glass	
Frame	Anodized Aluminium Alloy	
Junction Box	IP67, 3 Bypass Diodes	
Cable Type	4mm²	
Length of Cable	240mm	
Connector	PV Connector	

## **OPTIONAL**

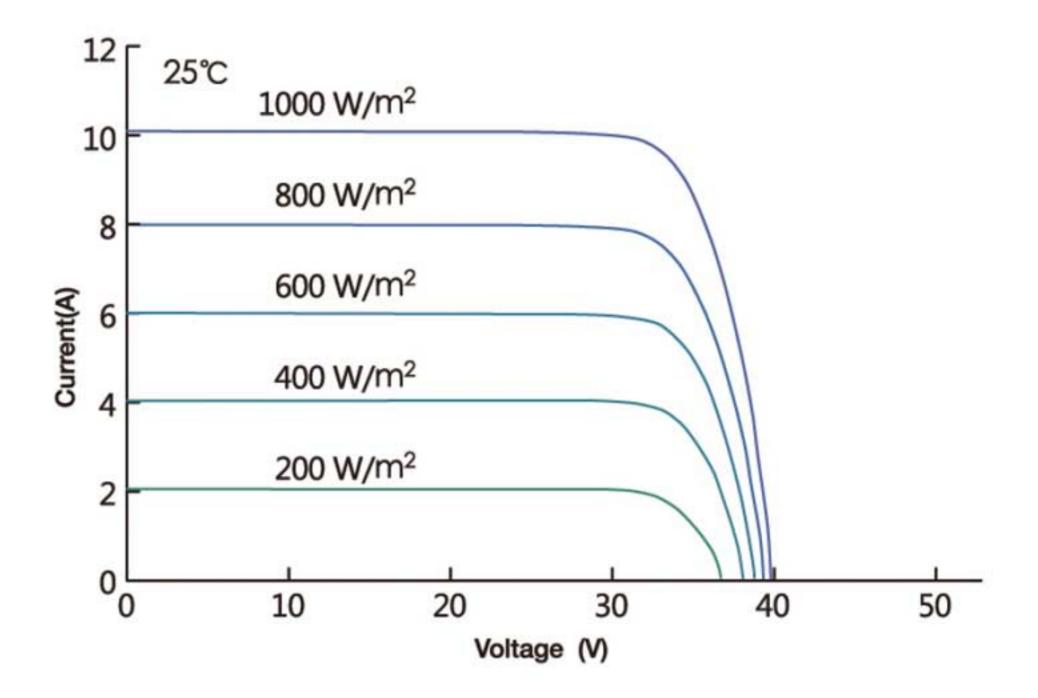
Frame	□Customized	
Backsheet	□Transparent Glass	
Connector	□Original MC4	
Cable	□ Customized	
Module Size	□ Customized	

PACKING MANNER	
Packing Type	40'HQ
Piece/Pallet	35
Piece/Container	910

\*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.

# ECO DELTA

## **Current-Voltage Curve under** different irradiance



## **Current-Voltage Curve under** different working temperatures

