

ECO DELTA High Efficiency 166 Mono SHINGLED MODULE

ECO-415M-60SBF

Sorting tolerance 0-5W



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 micro-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.



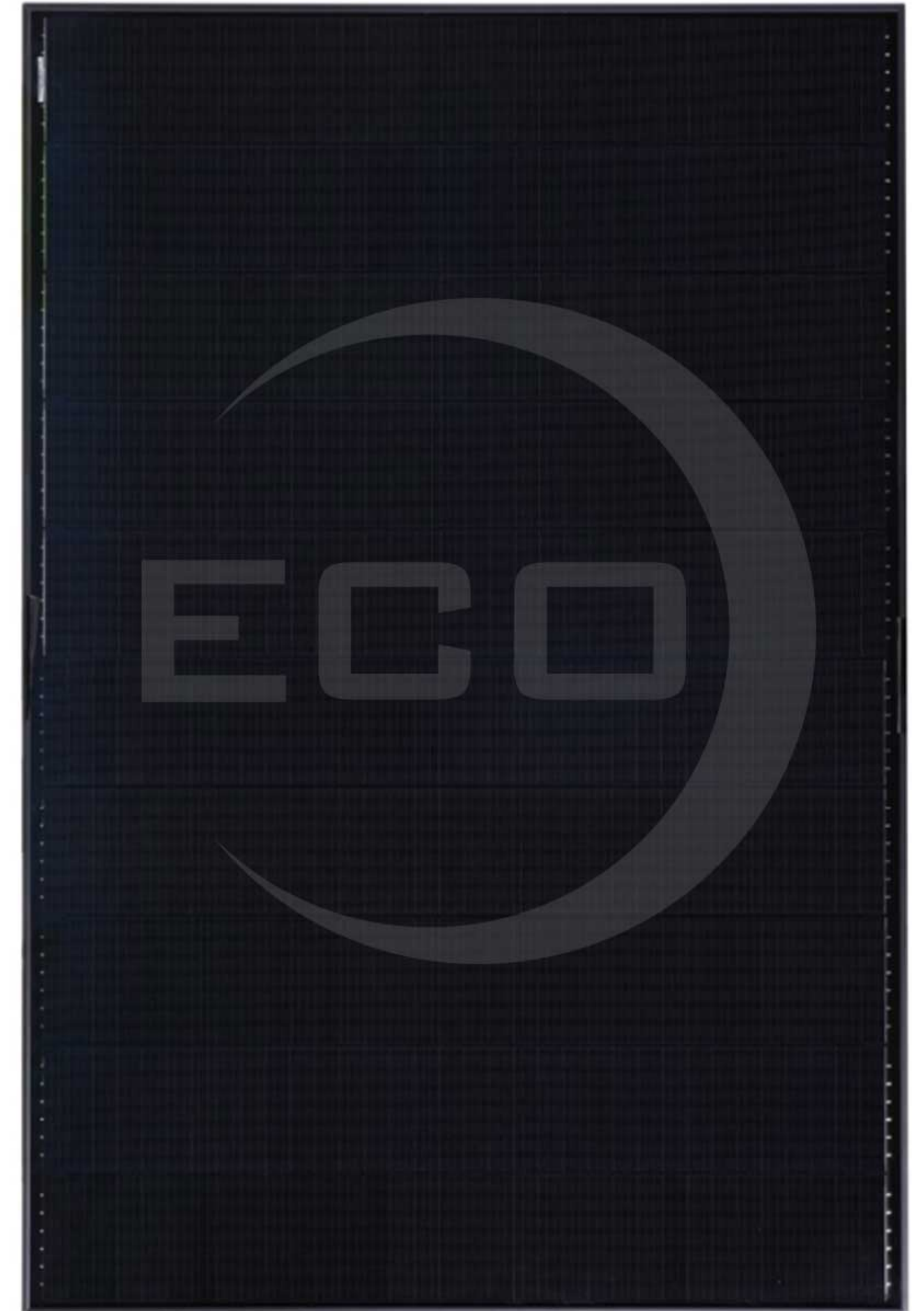
REDUCE INTERNAL MISMATCH LOSS

Reduces mismatch loss and improves output.



PASSED HAIL TEST

Certified to hail resistance: ice ball size (d=25mm) and ice ball velocity (v=23m/s).

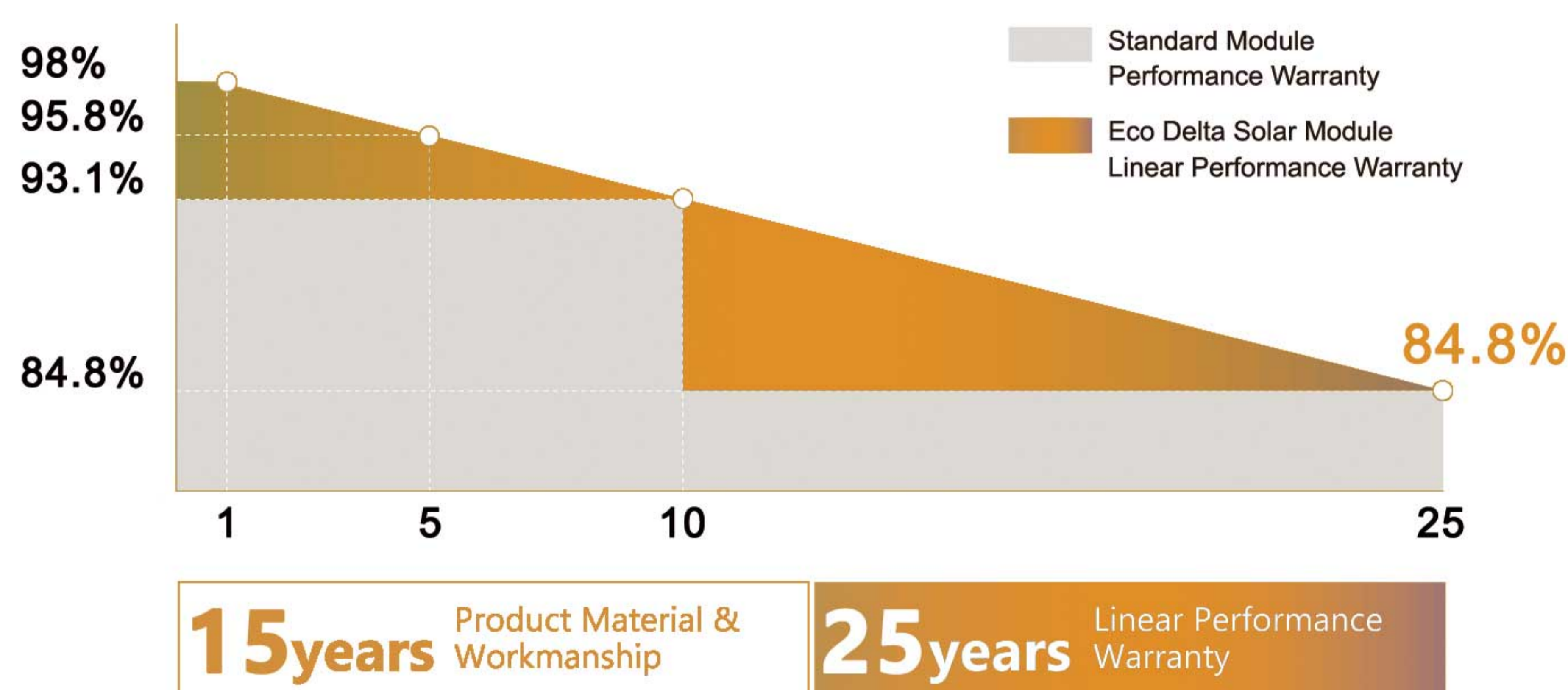


IEC 61730 (2016)

IEC 61215 (2016)

Manufactured in China

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.

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-60 SBF
Peak Power(Pmax)	(W)	415
Maximum Power Voltage (Vmp)	(V)	38.90
Maximum Power Current(Imp)	(A)	10.67
Open-circuit Voltage (Voc)	(V)	46.70
Short-circuit Current(Isc)	(A)	11.12
Module Efficiency	(%)	21.20
Operating Temperature		-40°C~+85°C
Maximum System Voltage		□1500V
Maximum Series Fuse Rating		20A
Tolerance		Pmax±3% Voc±3% Isc±3%
Fire Class		Class C

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

ELECTRICAL DATA @ NMOT

		ECO-415M-60 SBF
Peak Power(Pmax)	(W)	312
MPP Voltage (Vmp)	(V)	37.10
MPP Current(Imp)	(A)	8.43
Open Circuit Voltage (Voc)	(V)	44.50
Short Circuit Current(Isc)	(A)	9.97

*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, 166*33.2mm cut 1/5
Cell Arrangement	340pcs (1/5 , 166)
Dimension (L×W×H)	1719 x 1140 x 35 mm
Weight	22kg
Front Cover	3.2mm Tempered Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP67, 2 Bypass Diodes
Cable Type	4mm ²
Length of Cable	1000mm
Connector	RENHE 05-8 made in china

OPTIONAL

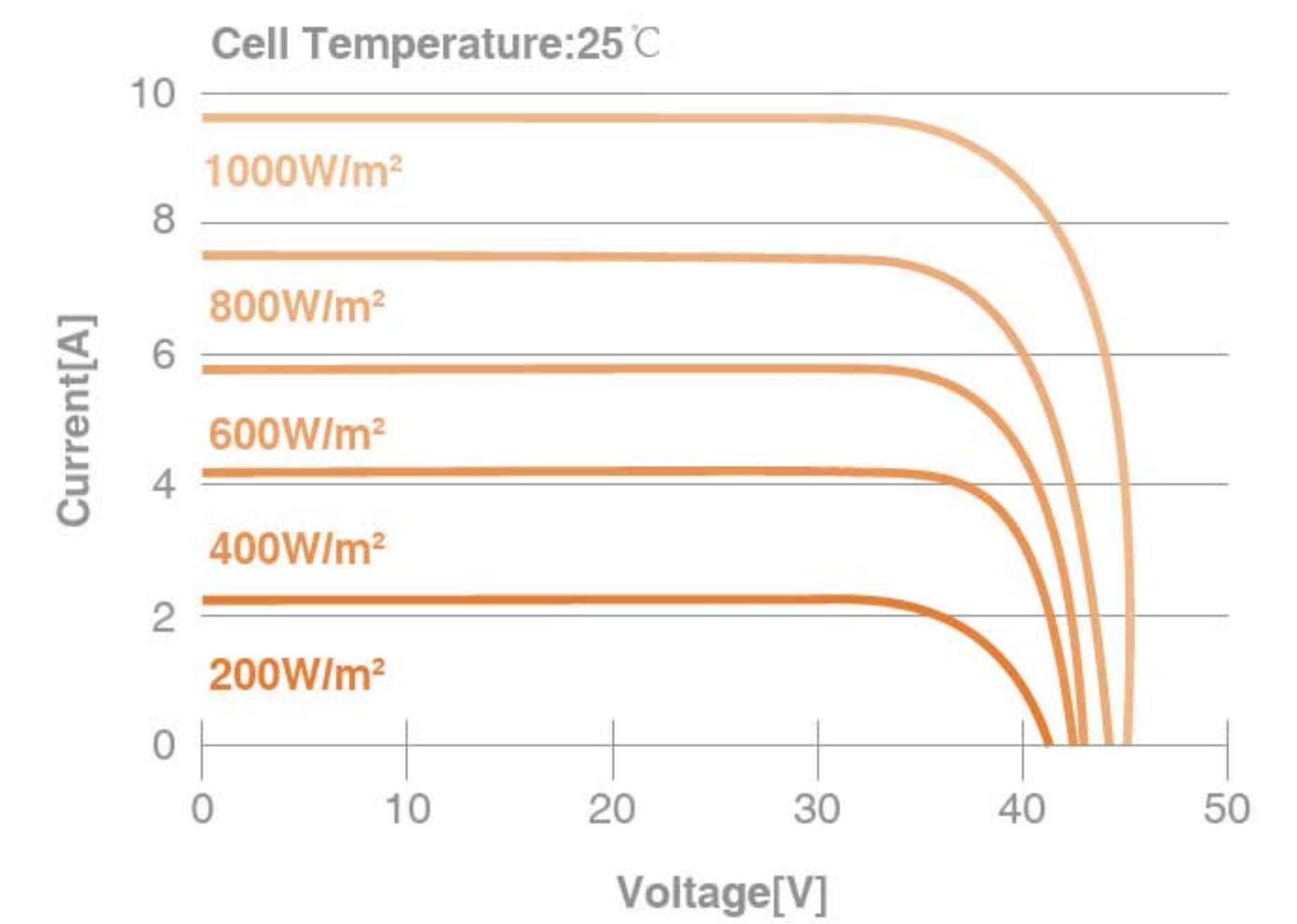
Frame	/
Backsheet	/
Connector	□Original MC4 STAUBLI EVO2
Cable	□Customized
Junction Box	□IP68

PACKING MANNER

Packing Type	40'HQ
Piece/Pallet	30
Piece/Container	780

*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

