

# CLASSIC PLUS™

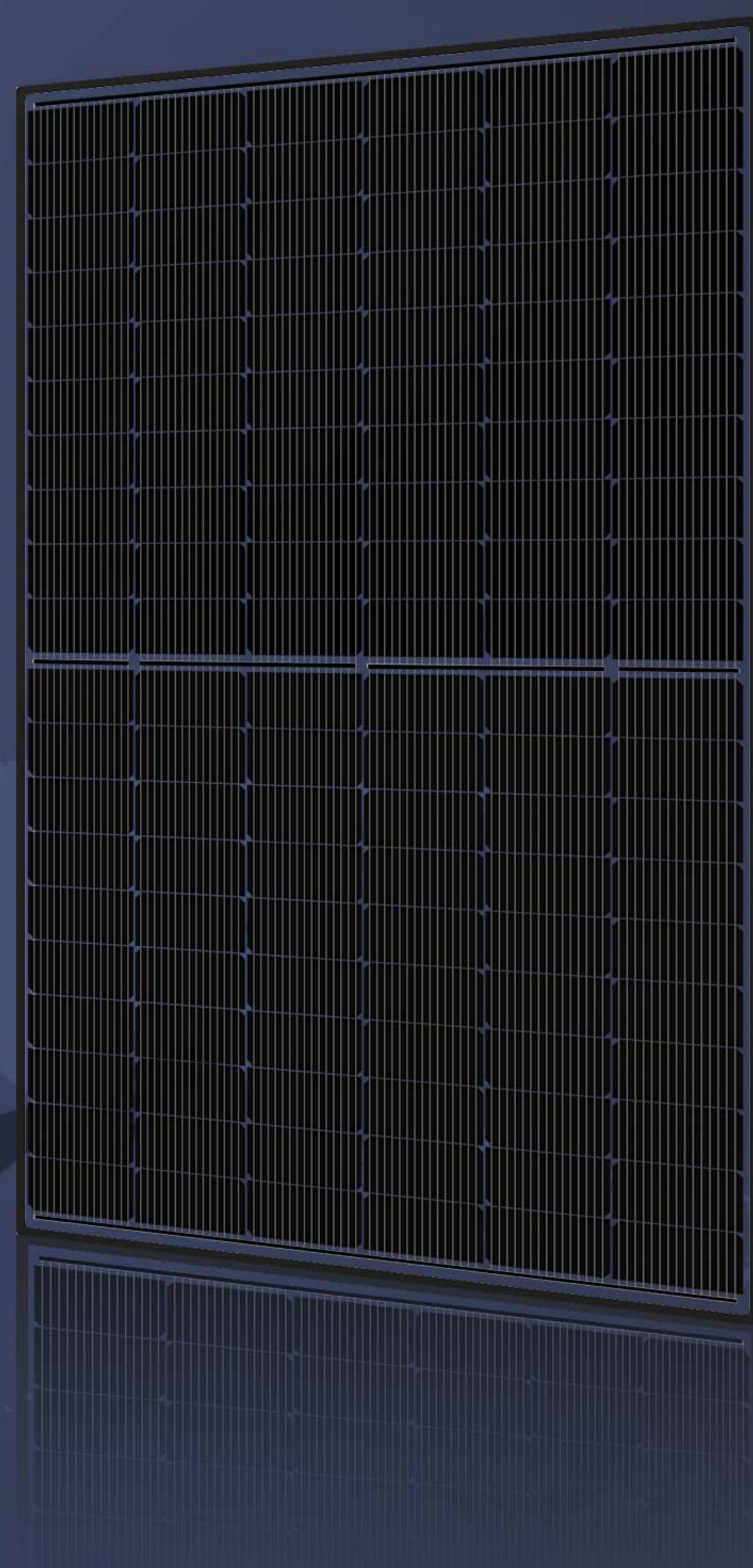


## ECO-440-450M-54LHC-DGBF (TOPCON)

# BIFACIAL SOLAR MODULE

### Infinitely close to 2 m<sup>2</sup>

# 1.999 m<sup>2</sup>



**30 YEARS**  
PRODUCT MATERIAL &  
WORKMANSHIP

**30 YEARS 87.4%**  
LINEAR PERFORMANCE  
WARRANTY

INNOVATIONAL  
SMBB AND  
HALF-CUT CELLS  
TECHNOLOGY

REDUCE  
INTERNAL LOSS  
REDUCE  
SHADOW LOSS

N TYPE  
TOPCON CELL  
TECHNOLOGY  
EXCELLENT CELL  
EFFICIENCY AND OUTPUT

PASSED THREE  
TIMES IEC  
STANDARD TEST

ADVANCED  
BIFACIAL  
EFFICIENCY

# ECO DELTA Mono TOPCON Half-cut Cell Double-glass-bifacial PV Module



## ECO-440-450M-54LHC-DGBF(TOPCON)

ELECTRICAL DATA @ STC		ECO-440M-54 LHC-DGBF	ECO-445M-54 LHC-DGBF	ECO-450M-54 LHC-DGBF
Peak Power(Pmax)	(W)	440	445	450
Maximum Power Voltage (Vmp)	(V)	32.67	32.87	33.07
Maximum Power Current(Imp)	(A)	13.47	13.54	13.61
Open-circuit Voltage (Voc)	(V)	39.33	39.53	39.73
Short-circuit Current(Isc)	(A)	14.08	14.15	14.22
Module Efficiency	(%)	22.02	22.27	22.54
Operating Temperature		-40°C~+85°C		
Maximum System Voltage		□1500V		
Maximum Series Fuse Rating		25A		
Mechanical Test Load		Front 5400Pa Rear 2400Pa		

\*STC (Standard Test Condition): Irradiance 1000W/ m<sup>2</sup>, Module Temperature 25°C, AM 1.5

ELECTRICAL DATA @ NMOT		ECO-440M-54 LHC-DGBF	ECO-445M-54 LHC-DGBF	ECO-450M-54 LHC-DGBF
Peak Power(Pmax)	(W)	331	335	339
MPP Voltage (Vmp)	(V)	30.42	30.62	30.82
MPP Current(Imp)	(A)	10.88	10.94	11.00
Open Circuit Voltage (Voc)	(V)	37.36	37.55	37.64
Short Circuit Current(Isc)	(A)	11.36	11.42	11.48

\*Under Nominal Module Operating Temperature (NMOT), Irradiance of 800W/ m<sup>2</sup>, Spectrum AM 1.5, Ambient Temperature 20°C, Wind Speed 1m/s

### TEMPERATURE CHARACTERISTICS

Temperature coefficient of Pmax	-0.29%/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 N-TYPE
Cell Arrangement	108pcs (2(6×9))
Dimension (L×W×H)	1762 x 1134 x 30 mm
Weight	22.5kg
Front Cover	1.6mm high transmittance, AR coated tempered glass
Frame	Anodized Aluminium Alloy
Junction Box	IP68, 3 Bypass Diodes
Cable Type	4mm <sup>2</sup>
Length of Cable	1000mm
Connector	Compatible with MC4 PV Connector

### OPTIONAL

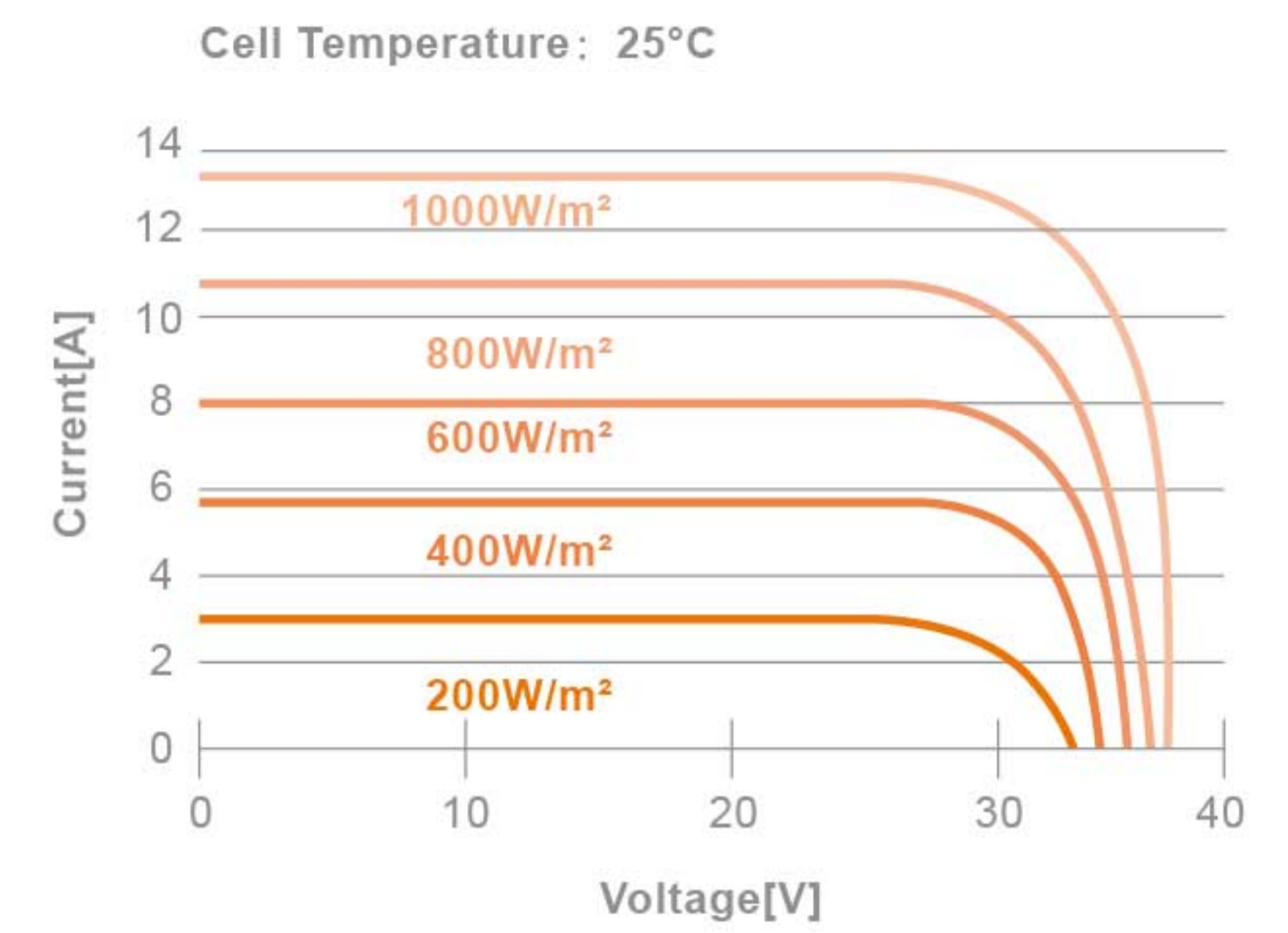
Frame	<input type="checkbox"/> Black <input type="checkbox"/> Silvery
Backsheet	<input type="checkbox"/> 1.6mm high transmittance, heat strengthened glass
Connector	<input type="checkbox"/> Original MC4
Cable	<input type="checkbox"/> Customized
Module Size	<input type="checkbox"/> Customized

### PACKING MANNER

Packing Type	40'HQ
Piece/Pallet	36
Piece/Container	936

\*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

