

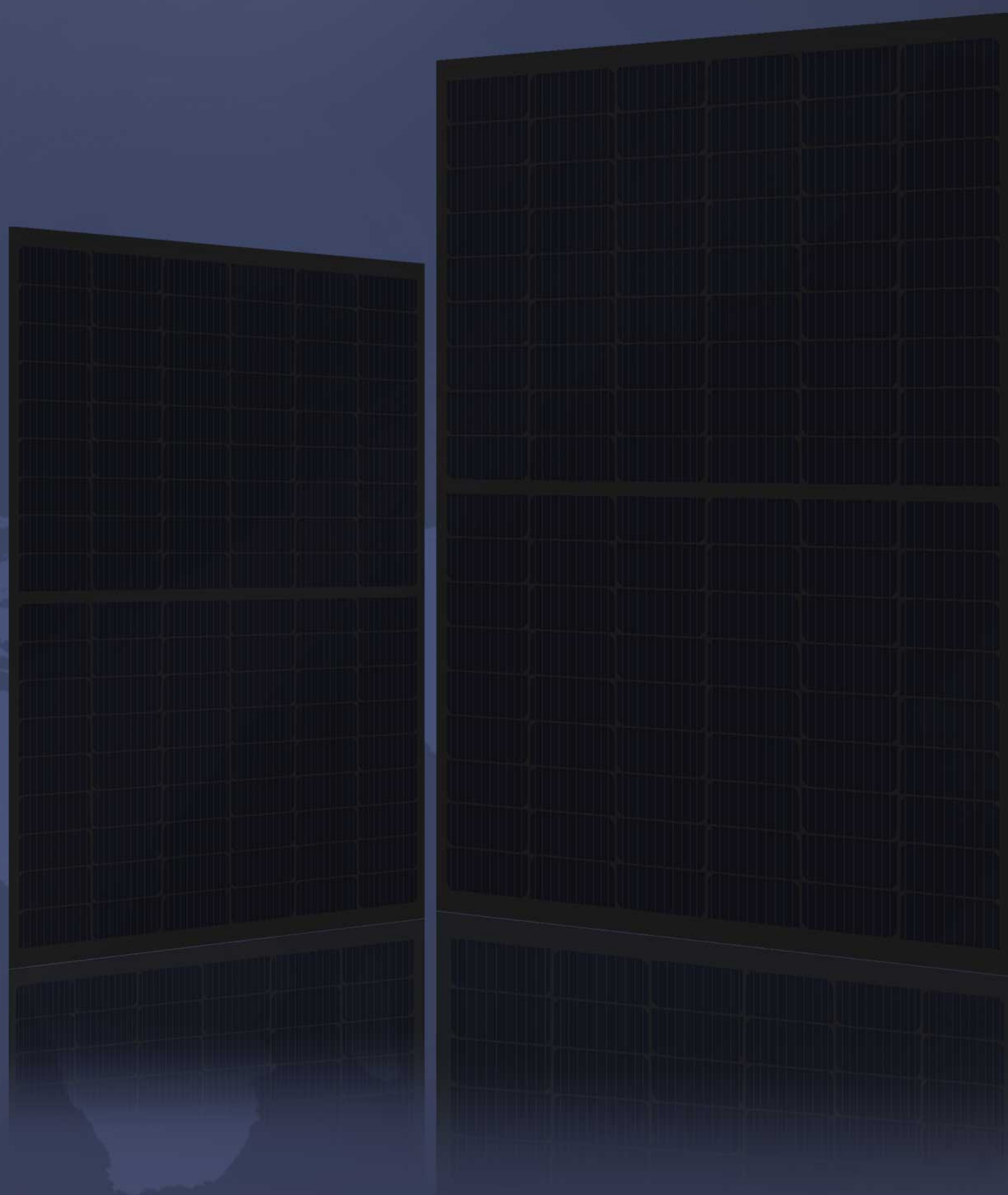
CLASSIC™



ECO-400-410M-54LHCblack

PHOTOVOLTAIC MODULE

M10 182mm



12 YEARS

PRODUCT MATERIAL &
WORKMANSHIP

25 YEARS 84.8%

LINEAR PERFORMANCE

WARRANTY

INNOVATIONAL
MBB AND
HALF-CUT CELLS
TECHNOLOGY

REDUCE
INTERNAL LOSS
REDUCE
SHADOW LOSS

MATURE
PERC CELL
TECHNOLOGY
EXCELLENT CELL
EFFICIENCY AND OUTPUT

PASSED THREE
TIMES IEC
STANDARD TEST

PASSED HAIL
TEST (ICE BALL
SIZE : d=45mm)

ECO DELTA MBB Mono Half-cut 182 Cell PV Module



ECO-400-410M-54LHCblack

ELECTRICAL DATA @ STC		ECO-400M-54 LHCblack	ECO-405M-54 LHCblack	ECO-410M-54 LHCblack
Peak Power(Pmax)	(W)	400	405	410
Maximum Power Voltage (Vmp)	(V)	31.28	31.52	31.76
Maximum Power Current(Imp)	(A)	12.79	12.85	12.91
Open-circuit Voltage (Voc)	(V)	37.18	37.42	37.67
Short-circuit Current(Isc)	(A)	13.54	13.60	13.66
Module Efficiency	(%)	20.46	20.71	21.00
Operating Temperature		-40°C~+85°C		
Maximum System Voltage		☐ 1000V ☐ 1500V		
Maximum Series Fuse Rating		25A		
Power Telorance		0~+3%		

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

ELECTRICAL DATA @ NMOT		ECO-400M-54 LHCblack	ECO-405M-54 LHCblack	ECO-410M-54 LHCblack
Peak Power(Pmax)	(W)	303	307	311
MPP Voltage (Vmp)	(V)	28.94	29.19	29.43
MPP Current(Imp)	(A)	10.47	10.52	10.57
Open Circuit Voltage (Voc)	(V)	34.58	34.81	35.04
Short Circuit Current(Isc)	(A)	11.08	11.13	11.18

*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	-0.35%/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, 182*91mm
Cell Arrangement	108pcs (2 (6×9))
Dimension (L×W×H)	1724 x 1134 x 30 mm
Weight	20.4kg
Front Cover	3.2mm Tempered Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP68, 3 Bypass Diodes
Cable Type	4mm²
Length of Cable	1000mm
Connector	Compatible with MC4 PV Connector

OPTIONAL

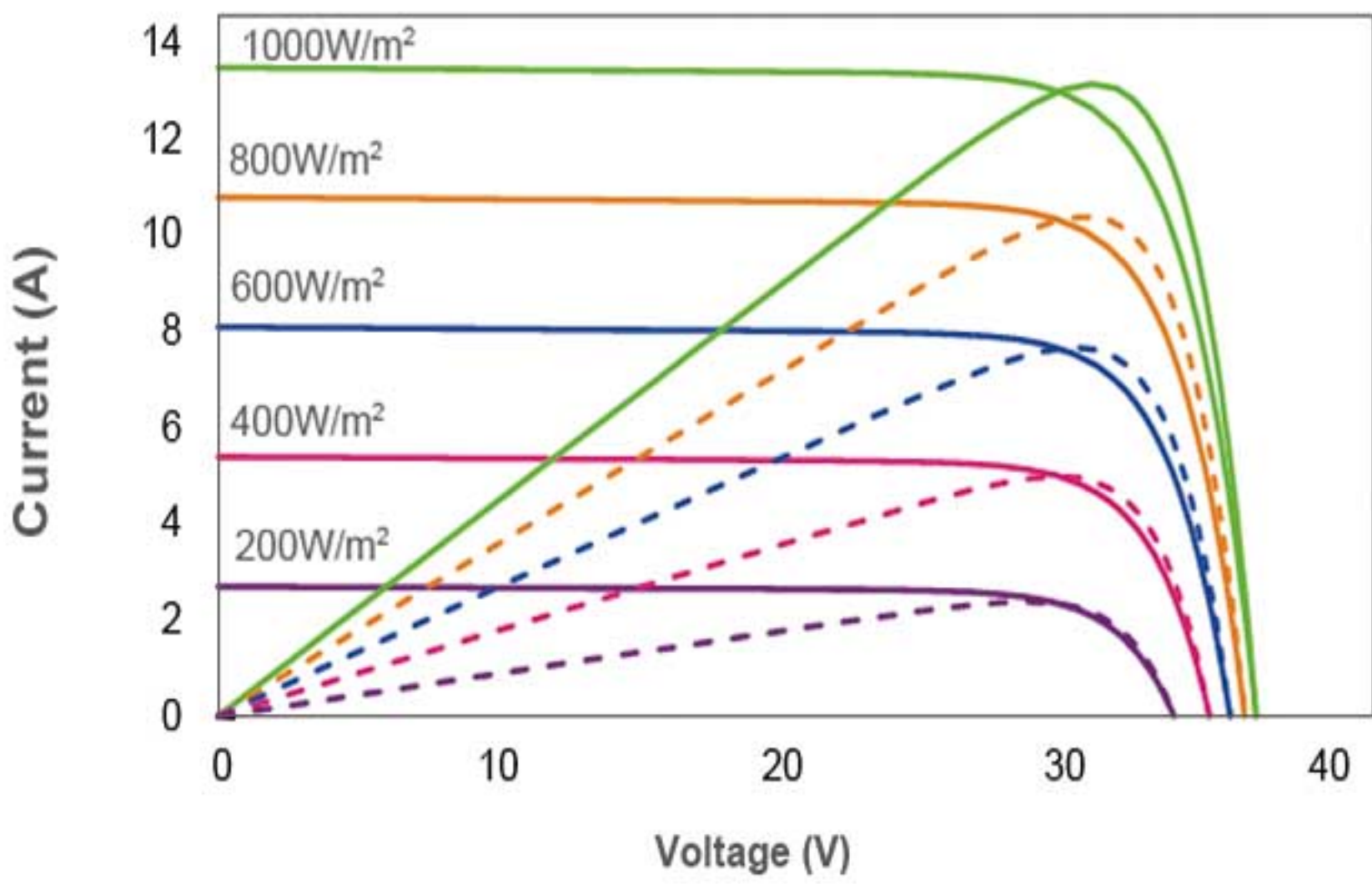
Frame	/
Backsheet	/
Connector	☐ Original MC4
Cable	☐ Customized
Module Size	☐ Customized

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 produccets described herein.

Current-Voltage Curve under different irradiance



Current-Voltage Curve under different working temperatures

