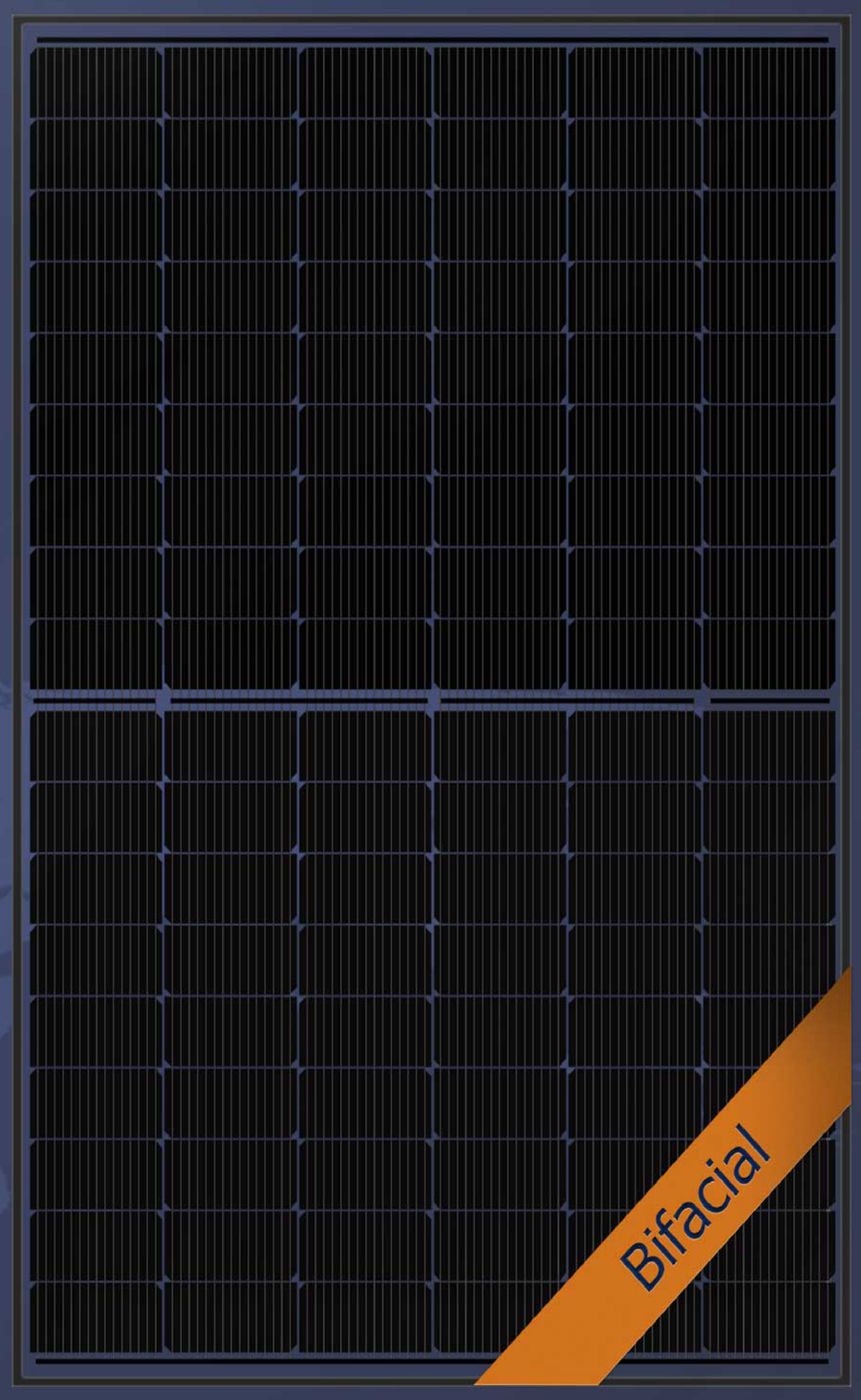
CLASSIC PLUS G™

ECO DELTA

ECO-500-515M-54RHC-DGBF(TOPCON)

N-TYPE BIFACIAL DOUBLE GLASS Module G12R

TOPCon



30 YEARS Product material & workmanship **30 YEARS 87.4%** Linear performance warranty	G12R Smbb and half-cut cells technology	Reduce internal loss Reduce shadow loss	N-type TOPCon cell technology Excellent cell Efficiency and power output	Harsh environ-ment resistance Damage-free laser cutting, lower micro-crack risk	Up to 80% power bifaciality

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

ECO-500-515M-54RHC-DGBF(TOPCON)

ELECTRICAL DATA @ STC

Peak Power(Pmax)	(W)	500	505	510	515
Maximum Power Voltage (Vmp)	(V)	33.33	33.53	33.73	33.93
Maximum Power Current(Imp)	(A)	15.00	15.06	15.12	15.18
Open-circuit Voltage (Voc)	(V)	40.07	40.32	40.57	40.82
Short-circuit Current(Isc)	(A)	15.90	15.96	16.01	16.07
Module Efficiency	(%)	22.5	22.7	22.9	23.2
Operating Temperature		-40°C~+85°C			
Maximum System Voltage		1500V			
Maximum Series Fuse Rating		30A			
Mechanical Test Load		Front 5400Pa Rear 2400Pa			

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

ELECTRICAL DATA @ NMOT

Peak Power(Pmax)	(W)	381	384	389	393
MPP Voltage (Vmp)	(V)	31.32	31.52	31.72	31.92
MPP Current(Imp)	(A)	12.16	12.18	12.26	12.32
Open Circuit Voltage (Voc)	(V)	38.06	38.33	38.60	38.87
Short Circuit Current(Isc)	(A)	12.79	12.81	12.87	12.93

*Under Nominal Module Operating Temperature (NMOT), Irradiance of 800W/ ㎡ , Spectrum AM 1.5, Ambient Temperature 20°C, Wind Speed 1m/s

Electrical characteristics @ Rear Power Gain

5% Max Power:Pmax	(W)	525	530	535	540
5% Module Efficiency:η	(%)	23.6	23.8	24.1	24.3
15% Max Power:Pmax	(W)	575	580	586	592
15% Module Efficiency:η	(%)	25.9	26.1	26,4	26.6
25% Max Power:Pmax	(W)	625	631	637	643
25% Module Efficiency:η	(%)	28.1	28.4	28.6	28.9

TEMPERATURE CHARACTERISTICS

Temperature coefficient of Pmax	-0.28%/°C
Temperature coefficient of Voc	-0.24%/°C
Temperature coefficient of Isc	0.046%/°C
NMOT	45±2°C

MECHNICAL DATA

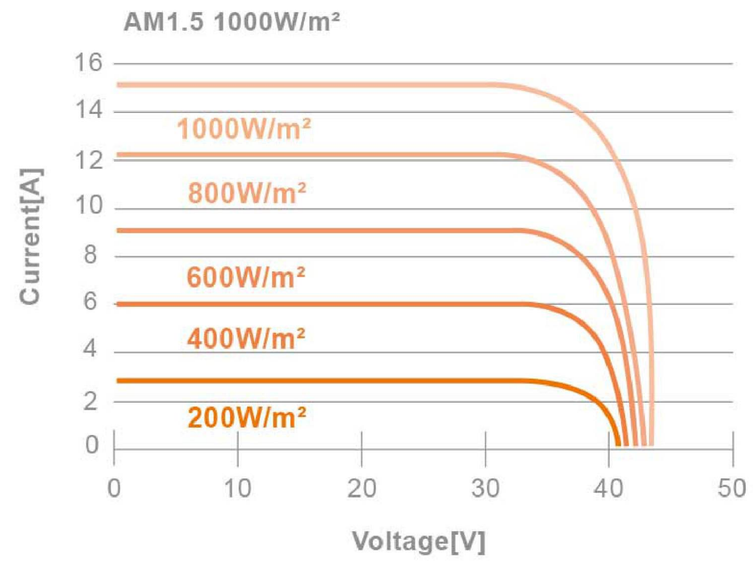
Cell Type	Mono-Crystalline TOPCON
Cell Arrangement	108pcs (2(6×9))
Dimension (L×W×H)	1961 x 1134 x 30 mm
Weight	23.7 kg
Front Glass	1.6mm high transmittance, AR coated tempered glass
Rear Glass	1.6mm heat strengthened glass
Frame	Anodized Aluminium Alloy
Junction Box	IP68, 3 Bypass Diodes
Cable Type	4mm²
Length of Cable	1200mm,length can be customized
Connector	Compatible with MC4 PV Connector

PACKING MANNER

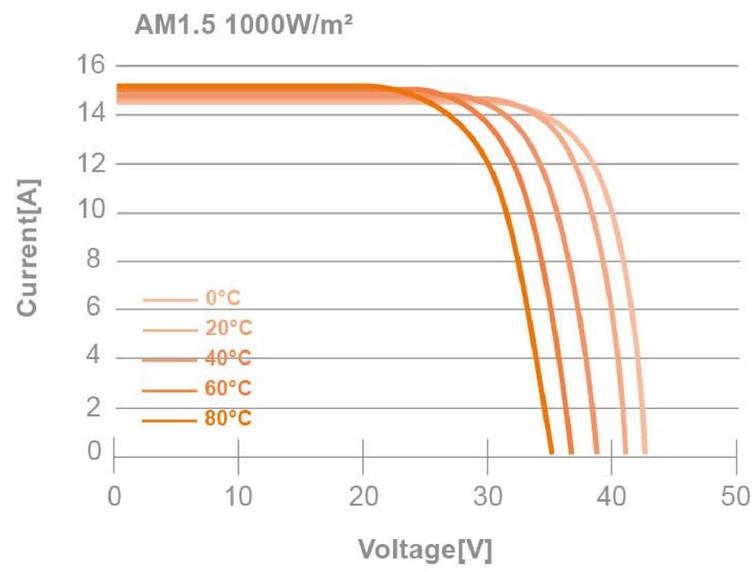
Packing Type	40'HQ
Piece/Pallet	36
Piece/Container	864

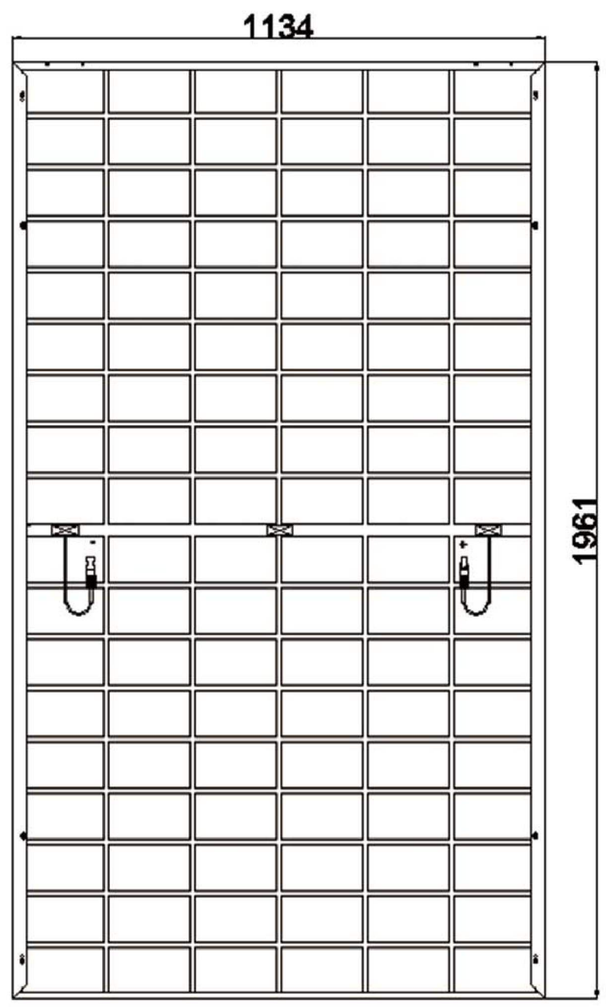
*The specification and key features described in this datasheet may deviate slightly and are not guaranteed. Due to ongoing innovation, R&D enhancement, ECO DELTA POWER CO., LTD Reserves the right to make any adjustment to the information described herein at any time without notice. Please always obtain 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.

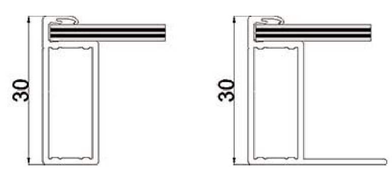
Current-Voltage Curve under different irradiance



Current-Voltage Curve under different working temperatures







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