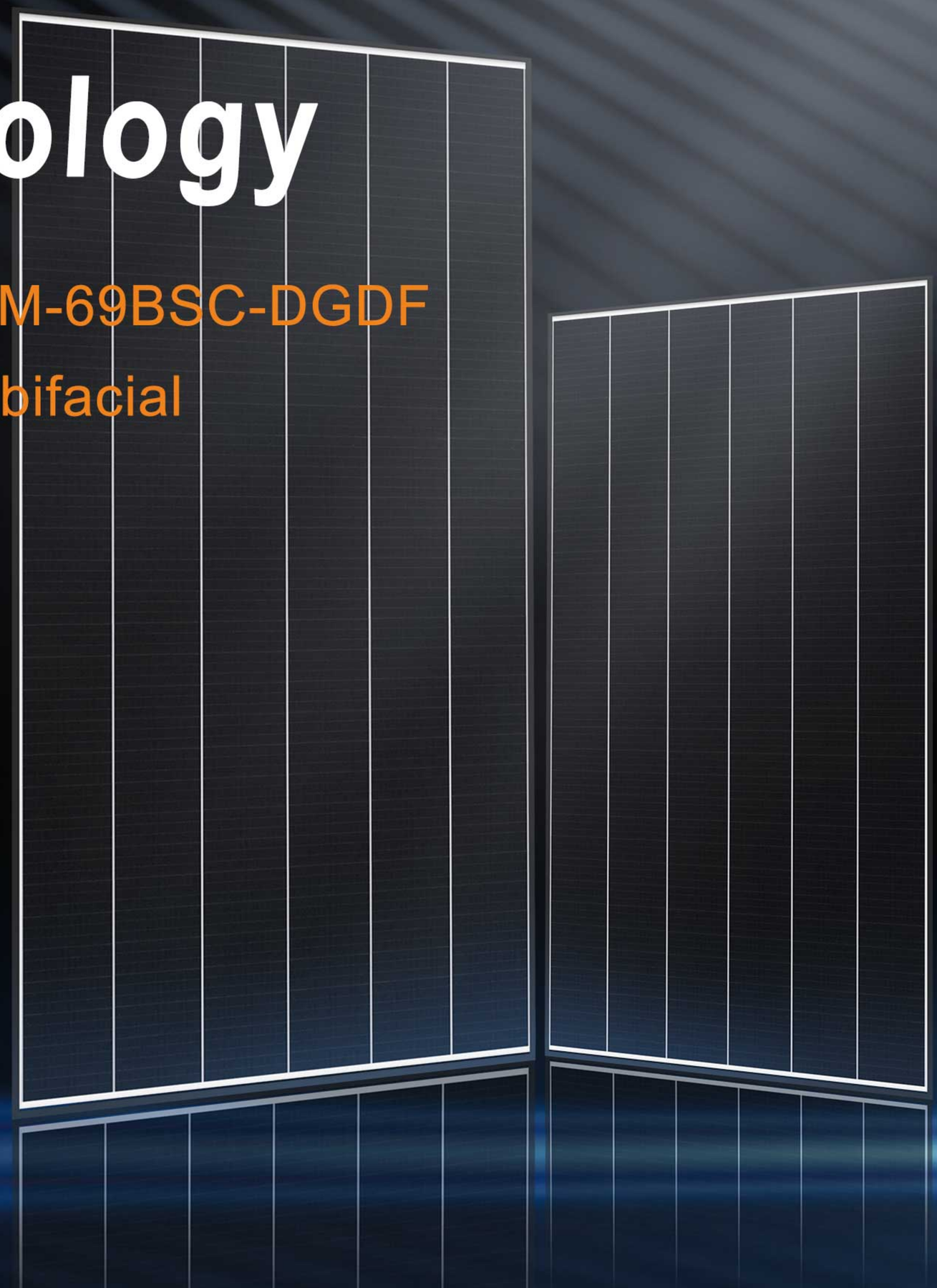
RAYS™

ECO DELTA

Newborn with Shingled module Technology

ECO-650-670M-69BSC-DGDF

Double-glass-bifacial



15 YEARS PRODUCT MATERIAL & WORKMANSHIP **30 YEARS 84.95%** LINEAR PERFORMANCE WARRANTY	INNOVATIONAL SHINGLED MODULE TECHNOLOGY	REDUCE SHADOW LOSS **UP TO 35%** COMPARING WITH CONVENTIONAL HALF CUT MODULE	REDUCE INTERNAL MISMATCH LOSS	PASSED THREE TIMES **IEC STANDARD TEST**	PASSED HAIL TEST (ICE BALL SIZE : d=45mm)

ECO DELTA High Efficiency Mono SHINGLED MODULE

Double-glass-bifacial

ECO-650-670M-69BSC-DGDF

ELECTRICAL DATA @ STC

		ECO-650M-69 BSC-DGDF	ECO-655M-69 BSC-DGDF	ECO-660M-69 BSC-DGDF	ECO-665M-69 BSC-DGDF	ECO-670M-69 BSC-DGDF
Peak Power(Pmax)	(W)	650	655	660	665	670
Maximum Power Voltage (Vmp)	(V)	38.80	38.85	38.90	39.00	39.10
Maximum Power Current(Imp)	(A)	16.77	16.86	16.95	17.05	17.14
Open-circuit Voltage (Voc)	(V)	46.70	46.80	46.90	47.00	47.10
Short-circuit Current(Isc)	(A)	17.84	17.94	18.04	18.14	18.23
Module Efficiency	(%)	20.90	21.10	21.20	21.40	21.60
Operating Temperature		-40°C~+85°C				
Maximum System Voltage		☐1500V				
Maximum Series Fuse Rating		30A				
Power Telorance		0~5W				

*STC (Standard Test Condition): Irradiance 1000W/ ㎡ , Module Temperature 25°C, AM 1.5
*Performance deviation of Voc [V], Isc [A], Vm [V] and Im [A] : ±3%

ELECTRICAL DATA @ NMOT

		ECO-650M-69 BSC-DGDF	ECO-655M-69 BSC-DGDF	ECO-660M-69 BSC-DGDF	ECO-665M-69 BSC-DGDF	ECO-670M-69 BSC-DGDF
Peak Power(Pmax)	(W)	489	493	497	501	504
MPP Voltage (Vmp)	(V)	37.00	37.05	37.10	37.20	37.30
MPP Current(Imp)	(A)	13.25	13.32	13.39	13.46	13.54
Open Circuit Voltage (Voc)	(V)	44.40	44.50	44.70	44.80	44.90
Short Circuit Current(Isc)	(A)	14.37	14.45	14.53	14.61	14.69

*Under Nominal Module Operating Temperature (NMOT), Irradiance of 800W/ ㎡ , 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	43±2°C

MECHNICAL DATA

Cell Type	Mono, 210mm cut
Cell Arrangement	408pcs
Dimension (L×W×H)	2384×1303×35 mm
Weight	39kg
Front Cover	2.0mm Tempered Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP68, 3 Bypass Diodes
Cable Type	4mm²
Length of Cable	1400mm
Connector	PV Connector

OPTIONAL

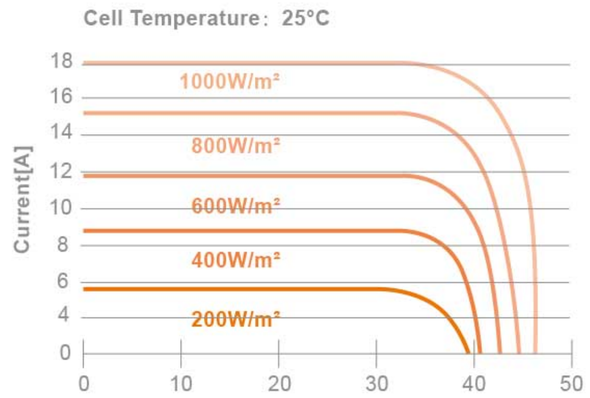
Frame	☐Black
Backsheet	☐2.0mm Tempered Glass
Connector	☐Original MC4
Cable	☐Customized
Junction Box	☐Customized

PACKING MANNER

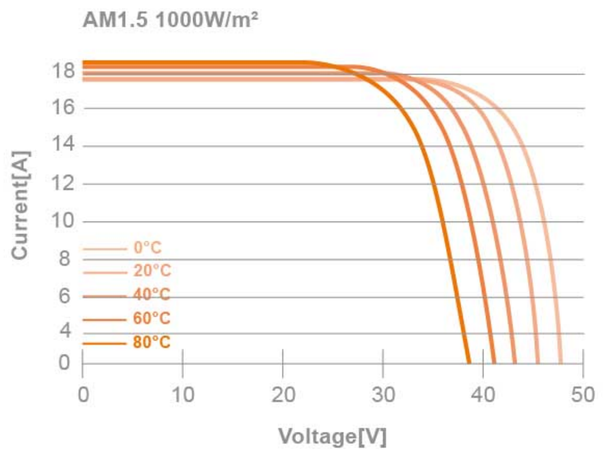
Packing Type	40'HQ
Piece/Pallet	31
Piece/Container	558

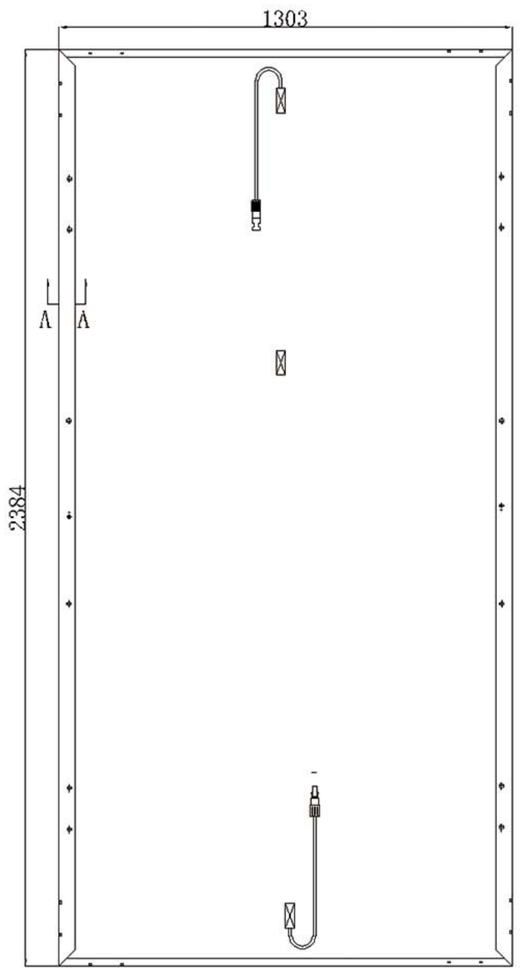
*The specification and key features described in this datasheet may deviate slightly and are not guaranteed. Due to ongoing innovation, R&D enhancement, ECO DELTA POWER CO., LTD Reserves the right to make any adjustment to the information described herein at any time without notice. Please always obtain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

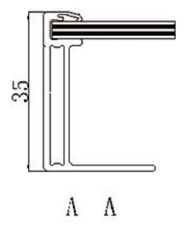
Current-Voltage Curve under different irradiance



Current-Voltage Curve under different working temperatures







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