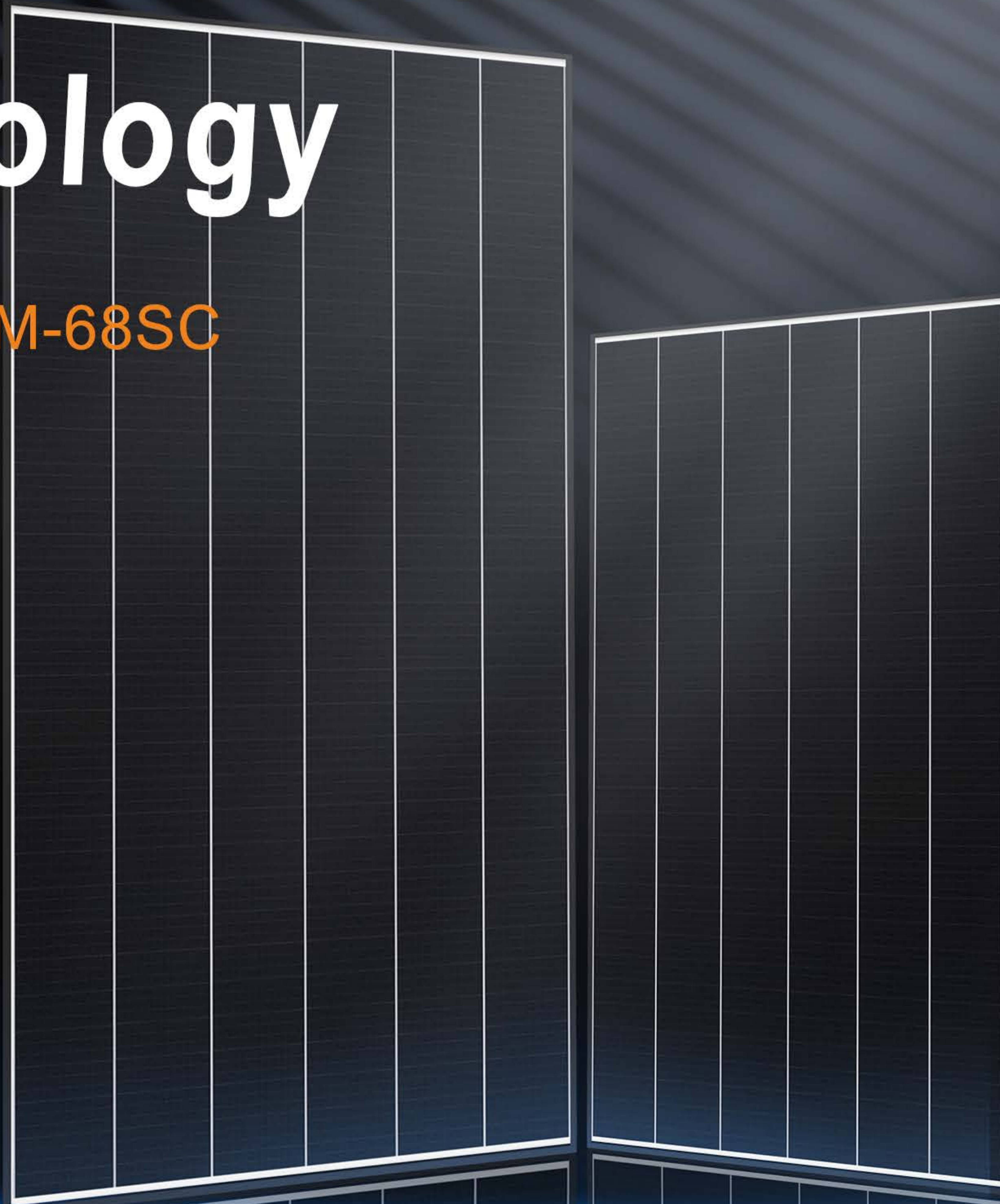


Newborn with Shingled module Technology

ECO-640-660M-68SC



15 YEARS
PRODUCT MATERIAL &
WORKMANSHIP
25 YEARS 84.8%
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



ECO-640-660M-68SC

ELECTRICAL DATA @ STC

		ECO-640M-68 SC	ECO-645M-68 SC	ECO-650M-68 SC	ECO-655M-68 SC	ECO-660M-68 SC
Peak Power(Pmax)	(W)	640	645	650	655	660
Maximum Power Voltage (Vmp)	(V)	38.18	38.26	38.38	38.43	38.51
Maximum Power Current(Imp)	(A)	16.76	16.86	16.94	17.04	17.14
Open-circuit Voltage (Voc)	(V)	46.00	46.10	46.20	46.30	46.40
Short-circuit Current(Isc)	(A)	17.83	17.93	18.02	18.13	18.23
Module Efficiency	(%)	20.90	21.00	21.20	21.30	21.50
Operating Temperature		-40°C~+85°C				
Maximum System Voltage		□1500V				
Maximum Series Fuse Rating		25A				
Power Tolerance		0~5W				

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

ELECTRICAL DATA @ NMOT

		ECO-640M-68 SC	ECO-645M-68 SC	ECO-650M-68 SC	ECO-655M-68 SC	ECO-660M-68 SC
Peak Power(Pmax)	(W)	482	486	489	493	497
MPP Voltage (Vmp)	(V)	36.40	36.50	36.60	36.65	36.70
MPP Current(Imp)	(A)	13.24	13.31	13.38	13.46	13.54
Open Circuit Voltage (Voc)	(V)	43.90	43.95	44.10	44.15	44.20
Short Circuit Current(Isc)	(A)	14.39	14.47	14.54	14.63	14.71

*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, 210mm cut 1/5
Cell Arrangement	408pcs (1/5, 210)
Dimension (L×W×H)	2355×1303×35 mm
Weight	34kg
Front Cover	3.2mm Tempered Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP68, 3 Bypass Diodes
Cable Type	4mm ²
Length of Cable	1400mm
Connector	PV Connector

OPTIONAL

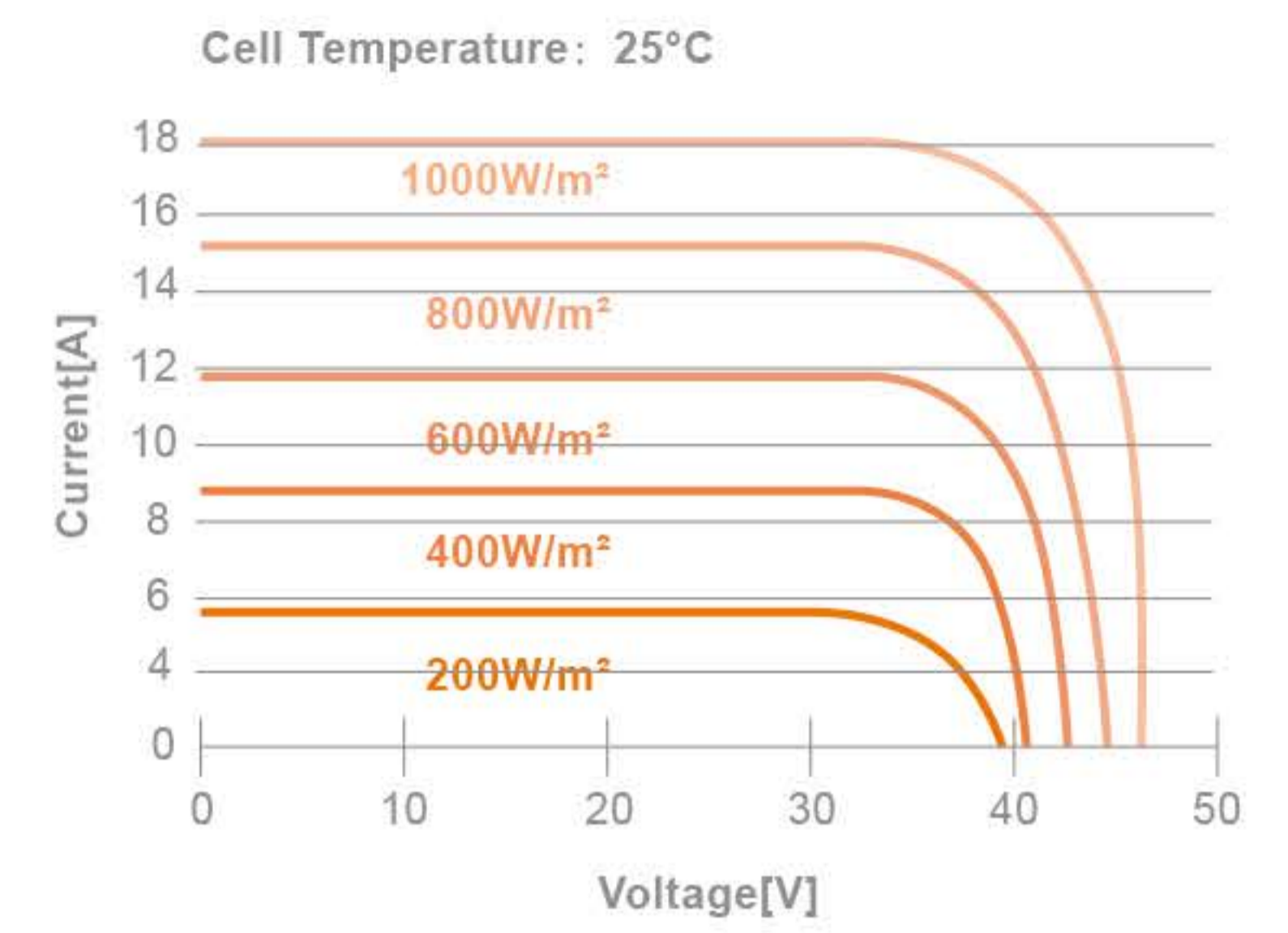
Frame	□Black
Backsheet	□Black
Connector	□Original MC4
Cable	□Customized
Junction Box	□Customized

PACKING MANNER

Packing Type	40'HQ
Piece/Pallet	30
Piece/Container	480

*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

