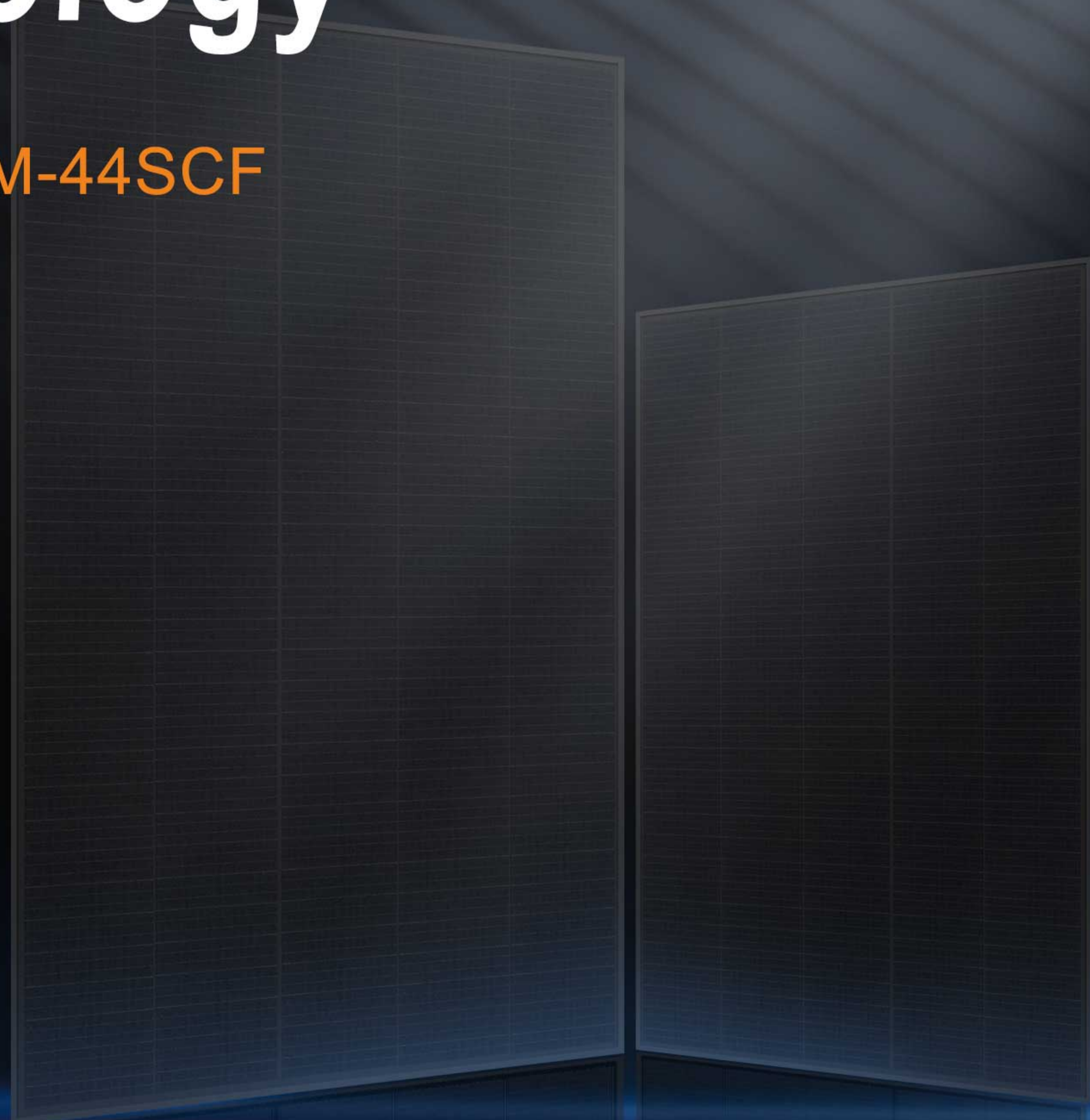


# Newborn with Shingled module Technology

**ECO-415-430M-44SCF**



**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-415-430M-44SCF

### ELECTRICAL DATA @ STC

		ECO-415M-44 SCF	ECO-420M-44 SCF	ECO-425M-44 SCF	ECO-430M-44 SCF
Peak Power(Pmax)	(W)	415	420	425	430
Maximum Power Voltage (Vmp)	(V)	34.40	34.50	34.60	34.70
Maximum Power Current(Imp)	(A)	12.08	12.19	12.30	12.40
Open-circuit Voltage (Voc)	(V)	41.50	41.60	41.70	41.80
Short-circuit Current(Isc)	(A)	12.80	12.92	13.03	13.05
Module Efficiency	(%)	20.90	21.10	21.40	21.70
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/ m<sup>2</sup>, Module Temperature 25°C, AM 1.5  
 \*Performance deviation of Voc [V], Isc [A], Vm [V] and Im [A] : ±3%

### ELECTRICAL DATA @ NMOT

		ECO-415M-44 SCF	ECO-420M-44 SCF	ECO-425M-44 SCF	ECO-430M-44 SCF
Peak Power(Pmax)	(W)	312	316	320	324
MPP Voltage (Vmp)	(V)	32.80	32.90	33.00	33.10
MPP Current(Imp)	(A)	9.53	9.62	9.70	9.79
Open Circuit Voltage (Voc)	(V)	39.60	39.70	39.80	39.85
Short Circuit Current(Isc)	(A)	10.31	10.41	10.50	10.51

\*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	-0.34%
Temperature coefficient of Voc	-0.27%
Temperature coefficient of Isc	0.04%
NMOT	43±2°C

### MECHANICAL DATA

Cell Type	Mono, 210mm cut
Cell Arrangement	305pcs
Dimension (L×W×H)	1812×1096×30 mm
Weight	20.8kg
Front Cover	3.2mm Tempered Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP68, 2 Bypass Diodes
Cable Type	4mm <sup>2</sup>
Length of Cable	1200mm
Connector	PV Connector

### OPTIONAL

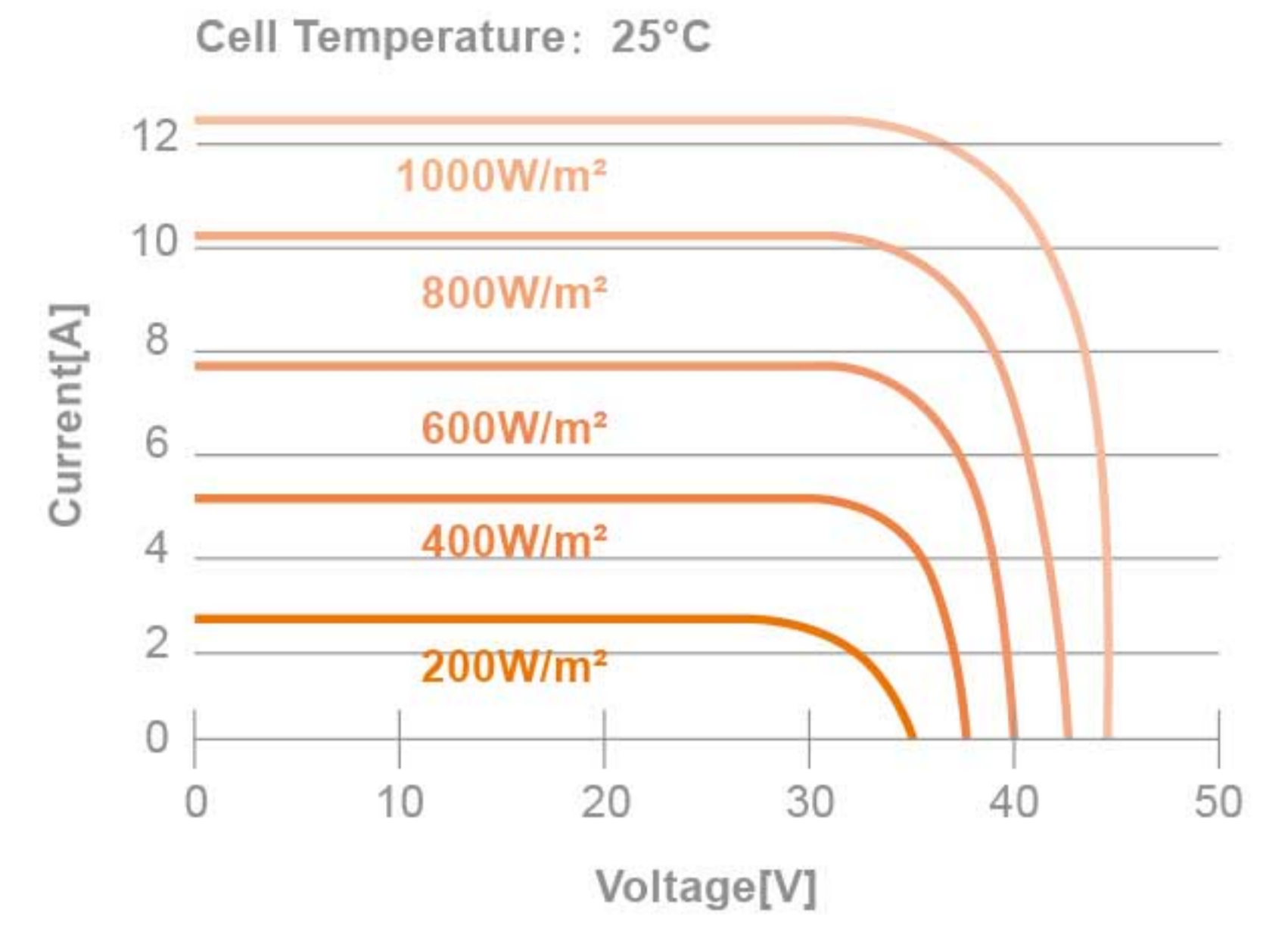
Frame	<input type="checkbox"/> Black <input type="checkbox"/> Silver
Backsheet	<input type="checkbox"/> Black <input type="checkbox"/> White
Connector	<input type="checkbox"/> Original MC4
Cable	<input type="checkbox"/> Customized
Junction Box	<input type="checkbox"/> Customized

### PACKING MANNER

Packing Type	40'HQ
Piece/Pallet	36*24
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 products described herein.

### Current-Voltage Curve under different irradiance



### Current-Voltage Curve under different working temperatures

