

# Newborn with Shingled module Technology

**ECO-480-500M-72SB**



**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-480-500M-72SB



ELECTRICAL DATA @ STC

		ECO-480M-72SB	ECO-485M-72SB	ECO-490M-72SB	ECO-495M-72SB	ECO-500M-72SB
Peak Power(Pmax)	(W)	480	485	490	495	500
Maximum Power Voltage (Vmp)	(V)	38.80	38.80	38.90	39.00	39.00
Maximum Power Current(Imp)	(A)	12.37	12.50	12.60	12.69	12.82
Open-circuit Voltage (Voc)	(V)	46.60	46.60	46.70	46.80	46.80
Short-circuit Current(Isc)	(A)	13.16	13.22	13.28	13.34	13.40
Module Efficiency	(%)	20.50	20.70	20.90	21.12	21.33
Operating Temperature		-40°C~+85°C				
Maximum System Voltage		□1500V				
Maximum Series Fuse Rating		20A				
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-480M-72SB	ECO-485M-72SB	ECO-490M-72SB	ECO-495M-72SB	ECO-500M-72SB
Peak Power(Pmax)	(W)	361	365	369	373	376
MPP Voltage (Vmp)	(V)	37.00	37.00	37.10	37.20	37.20
MPP Current(Imp)	(A)	9.77	9.87	9.95	10.02	10.13
Open Circuit Voltage (Voc)	(V)	44.40	44.40	44.50	44.60	44.60
Short Circuit Current(Isc)	(A)	10.62	10.67	10.72	10.76	10.81

\*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

MECHANICAL DATA

Cell Type	Mono, 166 cut
Cell Arrangement	408pcs
Dimension (L×W×H)	2056 x 1140 x 35 mm
Weight	25kg
Front Cover	3.2mm Tempered Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP68, 2 Bypass Diodes
Cable Type	4mm²
Length of Cable	1200mm
Connector	PV Connector

OPTIONAL

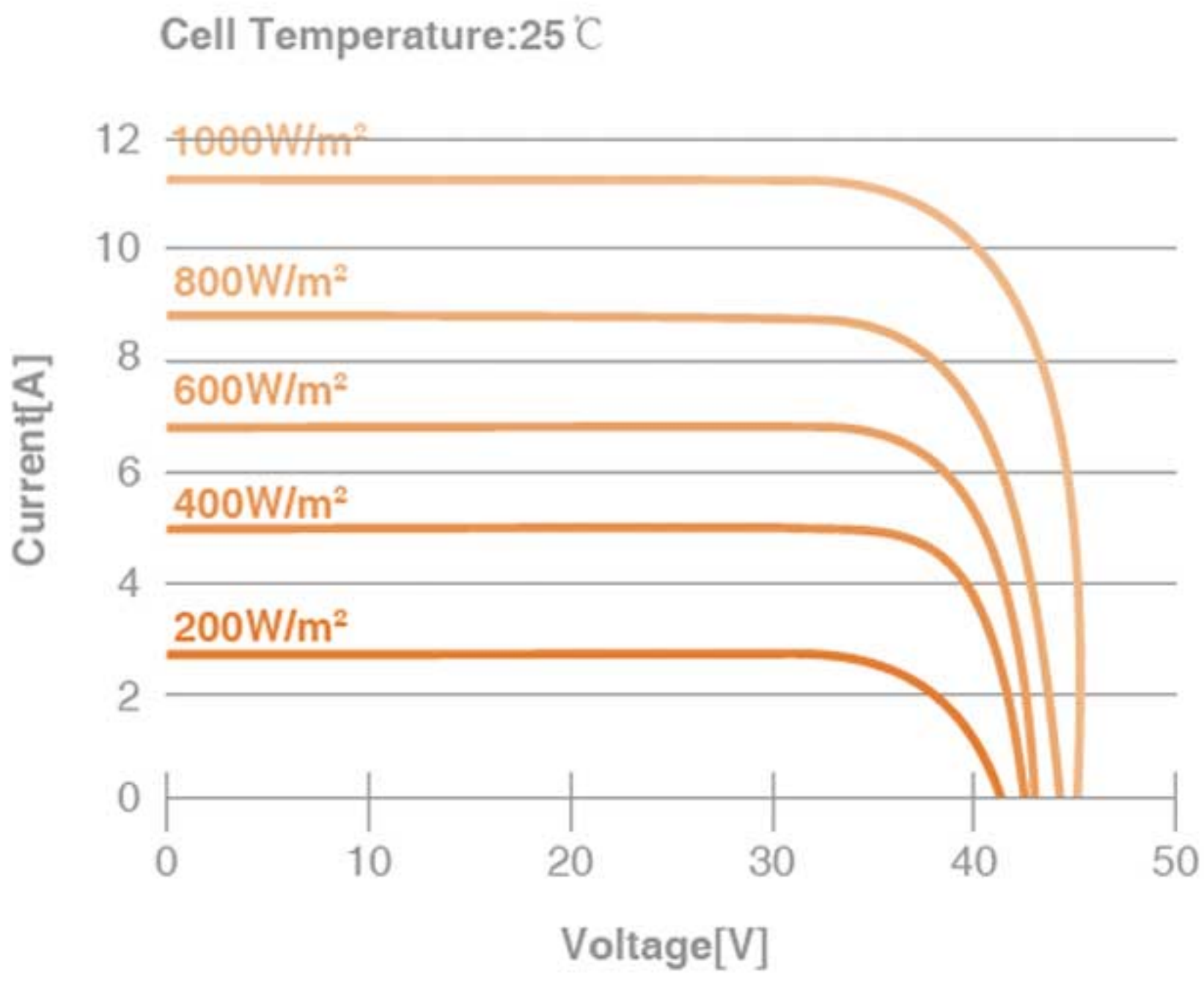
Frame	□Black
Backsheet	□Black
Connector	□Original MC4
Cable	□Customized
Junction Box	□IP68

PACKING MANNER

Packing Type	40'HQ
Piece/Pallet	31
Piece/Container	682

\*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

