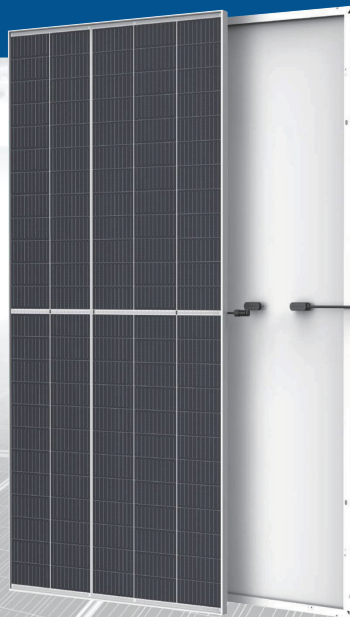


# EAP-420 SERIES

High efficiency mono panel

EAP-400  
EAP-405  
EAP-410  
EAP-415  
EAP-420



**420W**

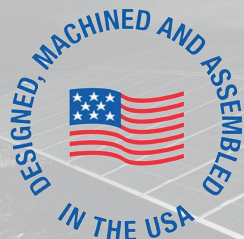
Maximum Power Output

**21.7%**

Maximum Module Efficiency

**0+~5W**

Power Output Guarantee



engineered for

## PERFORMANCE

**420W** 400W-420W power range  
21.7% module efficiency

**\$** 4.5% lower LCOE  
5.6% lower system cost

**LID / LeTID mitigation**  
Up to 50% lower degradation

**+** Utility grade  
Guaranteed compatibility

**☁** Improved shade tolerance

° Please contact our EA Engineering Team for detailed technical specifications

designed for

## RELIABILITY

### Ruggedized construction

Built to withstand real-world conditions.  
Rated for heavy snow loads up to 5400 Pa and wind loads up to 2400 Pa

### Durable materials

Advanced manufacturing technology minimizes chances of micro-cracks resulting from impact or heat.

industry leading

## PROTECTION

**25**  
YEARS

**Power Warranty**  
Guaranteed power  
98% for 1st year  
< 0.5%/yr. to year 25

**25**  
YEARS

**Product Warranty**  
Enhanced coverage  
on materials and  
workmanship

Energy America, LLC.  
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**EN=RGY**<sup>®</sup>  
AMERICA

# EAP-420 SERIES

## High efficiency mono panel

### Module Dimension

#### Electrical Specification (STC\*)

		400	405	410	415	420
Maximum Power	P <sub>max</sub> (W)	400	405	410	415	420
Maximum Power Voltage	V <sub>mp</sub> (V)	34.2	34.4	34.6	34.8	35.0
Maximum Power Current	I <sub>mp</sub> (A)	11.70	11.77	11.85	11.92	11.98
Open Circuit Voltage	V <sub>oc</sub> (V)	41.2	41.4	41.6	41.8	42.0
Short Circuit Current	I <sub>sc</sub> (A)	12.28	12.34	12.41	12.47	12.53
Module Efficiency	(%)	20.8	21.1	21.3	21.5	21.7
Power Output Tolerance	(W)	0 ~ +5				

\* Irradiance 1000W/m<sup>2</sup>, Module Temperature 25°C, Air Mass 1.5

#### Electrical Specification (NOCT\*)

		302	306	310	314	318
Maximum Power	P <sub>max</sub> (W)	302	306	310	314	318
Maximum Power Voltage	V <sub>mp</sub> (V)	32.2	32.5	32.8	33.0	33.2
Maximum Power Current	I <sub>mp</sub> (A)	9.38	9.41	9.44	9.47	9.50
Open Circuit Voltage	V <sub>oc</sub> (V)	38.8	38.9	39.0	39.1	39.3
Short Circuit Current	I <sub>sc</sub> (A)	9.90	9.95	10.1	10.16	10.21

\* Irradiance 800W/m<sup>2</sup>, Ambient Temperature 20°C, Wind Speed 1m/s

#### Mechanical Data

Number of Cells	120 Cells (5×24)
Dimensions of Module L*W*H (mm)	1754×1096×35mm [69.05×43.14×1.38 inches]
Weight (kg)	21.0kg
Glass	High transparency solar glass 3.2mm [0.13 inches]
Backsheet	White
Frame	Silver, anodized aluminium alloy
J-Box	IP68 Rated
Cable	4.0mm <sup>2</sup> [0.006 inches <sup>2</sup> ], 300mm [11.8 inches]
Number of diodes	3
Wind/ Snow Load	2400Pa/ 5400Pa*
Connector	MC Compatible

\* For more details please check the installation manual

#### Temperature Ratings

Nominal Operating Cell Temperature (NOCT)	43±2°C
Temperature Coefficient of I <sub>sc</sub>	+0.040%/°C
Temperature Coefficient of V <sub>oc</sub>	-0.250%/°C
Temperature Coefficient of P <sub>MAX</sub>	-0.340%/°C

#### Packaging Configuration

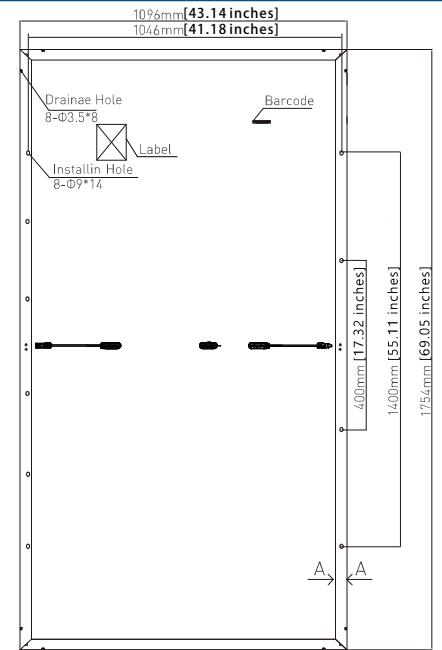
Module per box	30 pieces
Module per 40' container	780 pieces

#### Maximum Ratings

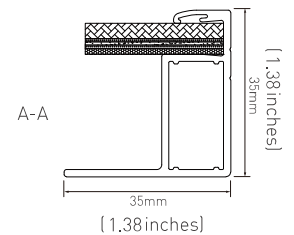
Operational Temperature	-40~+85°C
Maximum System Voltage	1500V DC -(H)
Max Series Fuse Rating	25A

#### Optional

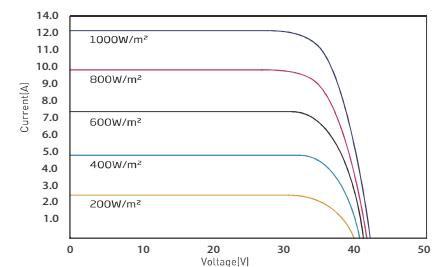
Connector	MC Original
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#### Back View



#### I-V Curve at Different Temperature (395W)



#### P-V Curve at Different Irradiation (395W)

