

## PHOTOVOLTAIC MODULE AS°M144(X) \* <sub>2</sub>M6 CELLS″



### 445- 455 Wp 144 MONOCRYSTALLINE HALF-CUT CELLS

AEG solar modules combine the most advanced technology with high reliability in manufacture to o<sup>~</sup>er you a product meant for high achievements.

### OPTIMIZED DESIGN MAXIMUM EFFICIENCY

AEG solar modules with half-cut cells (M6) and multibusbar technology are designed to maximize e<sup>~</sup>iciency and plant performance. The extra-long cables allow more installation flexibility and comfort.

### CAREFUL SELECTION, PREMIUM LOOK

The careful selection of components (cells, backsheet and frames) ensures a premium product look and provides extra aesthetical value.

### COMPREHENSIVELY CERTIFIED

AEG solar modules and production facilities are compliant with the the latest standards to guarantee safety and reliability. Production facilities are certified according to ISO 9001, ISO 14001 and ISO 45001. AEG solar products are certified among others by:



www.aeg-industrialsolar.de

### HIGH EFFICIENCY SERIES



**PRODUCT NAMECODE (PNC)** AS-M144(X)\*-H(M6)-445/450/455, silver frame AS-M144(X)\*Z-H(M6)-445/450/455, black frame

# AEG

# AS°M144(X) \* , M6 CELLS"

PRODUCT SERIES & NAMECODE , PI	٩C
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AEG HIGH EFFICIENCY SERIES

AS-M144(X)\*-H(M6)-440/445/450, silver frame

AS-M144(X)\*Z-H(M6)-440/445/450, black frame

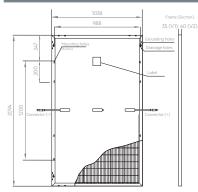
ELECTRICAL CHARACTERISTICS AT STC <sup>1,2</sup>				
Nominal Power (Pmax)	[Wp]	445	450	455
Power Sorting <sup>3</sup>	[Wp]	-0/+5	-0/+5	-0/+5
Maximum Power Voltage (Vmp)	[V]	40.77	40.91	41.04
Maximum Power Current (Imp)	[A]	10.92	11.01	11.10
Open Circuit Voltage (Voc)	[V]	50.12	50.27	50.42
Short Circuit Current (Isc)	[A]	11.35	11.43	11.51
Module E~iciency ( <b>η</b> m)	[%]	20.47	20.70	20.93
Maximum System Voltage	[V]	1000	1000	1000
Series Fuse Maximum Rating	[A]	20	20	20

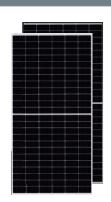
ELECTRICAL CHARACTERISTICS AT NMOT <sup>4</sup>				
Maximum Power (Pmax)	[W]	330.3	334.2	338.0
Maximum Power Voltage (Vmp)	[V]	37.17	37.30	37.42
Maximum Power Current (Imp)	[A]	8.89	8.96	9.03
Open Circuit Voltage (Voc)	[V]	46.92	47.06	47.20
Short Circuit Current (Isc)	[A]	9.15	9.21	9.28

MECHANICAL CHARACTERISTICS			
Solar cells	monocrystalline [pcs]	144	
	Dimensions [mm]	M6 Half-cut [166 x 83]	
Front glass	high-transparency		
	Thickness [mm] / [in]	3.2 / 0.126	
Backsheet	White		
Encapsulant	EVA		
Frame	Anodized aluminum alloy	Silver or black	
Junction box	Split-type	IP68	
	Bypass diodes	3	
UV-resistant	Length [mm] / [in]	1400 / 55.12	
cables	Section [mm <sup>2]</sup>	4	
Connectors	MC4	compatible	
Dimensions	H x L x W [mm] (V1)	2094 x 1038 x 35	
	$H \times L \times W$ [mm] (V2, optional)	2094 x 1038 x 40	
Weight	[kg]	24.3 (V1) / 24.6 (V2)	
Maximum load	Wind / Snow [Pa]	2400 / 5400	

CERTIFICATIONS		
System	ISO 9001, ISO 14001, ISO 45001	
Product	IEC 61215-1/-2:2016, IEC 61215-1-1:2016	
	IEC 61730-1:2016, IEC 61730-2:2016	

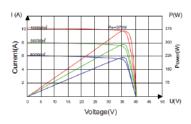
### TECHNICAL DRAWINGS

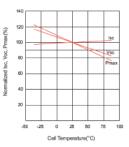




TEMPERATURE CHARACTERISTICS		
NMOT	[°C]	42±3
Pmax Temp. Coe $$ icient ( $\gamma$ )	[%/°C]	-0.365
Voc Temp. Coe~icient ( $eta$ )	[%/°C]	-0.270
lsc Temp.Coe~icient ( <b>α</b> )	[%/°C]	+0.038
Operating temperature	[°C]	-40~+85

#### V CURVES ° IRRADIANCES





WARRANTIES		
Product warranty	[years]	25
Performance warranty (linear) <sup>5</sup>	[years]	25

PACKAGING		
Packing configuration	[pcs/pallet]	31 (V1) / 27 (V2)
Loading capacity	[pcs/40 ft container]	682 (V1) / 594 (V2)

### CONTACT US info@aeg-solar.com | www.aeg-solar.com

HE/GBJNo less than 98% of the minimum "Peak Power at STC'in the first year, power outp text of the Warranty Terms available at: www.solarsolutions.ag/aeg/warranty imensions in the technical picture are expressed in mm with tolerance ±2 mm (±0.079 \*)

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