

# PHOTOVOLTAIC MODULE AS-M1443 (M6 CELLS)



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

AEG solar modules combine the most advanced technology with high reliability in manufacture to offer you a product meant for high achievements.

### OPTIMIZED DESIGN MAXIMUM EFFICIENCY

AEG solar modules with half-cut cells (M6) and 9 busbar technology are designed to maximize efficiency and plant performance. The extra-long cables allow more installation flexibility and comfort.



### EXTENSIVE WARRANTIES, EXTRA PEACE OF MIND

Thanks to their outstanding manufacturing quality, AEG High Efficiency modules (glass-backsheet) are covered by 15 years warranty on the product and 25 years warranty on performance. For extra peace of mind, product warranty can optionally be extended to 20 years.

### 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 OHSAS 18001. AEG solar products are certified among others by:



www.aeg-industrialsolar.de

## HIGH EFFICIENCY SERIES



#### **PRODUCT NAMECODE (PNC)** AS-M1443-H(M6)-445/450/455, silver frame <u>AS-M1443Z-H(M6)</u>-445/450/455, black frame

## EG A

## AS-M1443 (M6 CELLS)

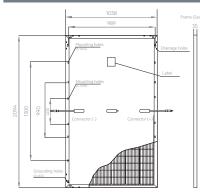
PRODUCT SERIES & NAMECODE (PNC)		
	AEG HIGH EFFICIENCY SERIES	
	AS-M1443-H(M6)-445/450/455, silver frame	
	AS-M1443Z-H(M6)-445/450/455, black frame	

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]	41,05	41,32	41,51
Maximum Power Current (Imp)	[A]	10,84	10,89	10,96
Open Circuit Voltage (Voc)	[V]	48,8	49,05	49,35
Short Circuit Current (Isc)	[A]	11,3	11,37	11,44
Module Efficiency ( <b>η</b> m)	[%]	20,50%	20,70%	20,90%
Maximum System Voltage	[V]	1000	1000	1000
Series Fuse Maximum Rating	[A]	20	20	20

ELECTRICAL CHARACTERISTICS				
Maximum Power (Pmax)	[W]	330,8	334,5	338,2
Maximum Power Voltage (Vmp)	[V]	38,12	38,37	38,55
Maximum Power Current (Imp)	[A]	8,68	8,72	8,78
Open Circuit Voltage (Voc)	[V]	45,7	45,94	46,22
Short Circuit Current (Isc)	[A]	9,1	9,16	9,22

MECHANICAL CHARACTERISTICS			
Solar cells	monocrystalline silicon, half-cut [pcs]	144	
	Dimensions [mm]	M6 Half-cut [166 x 83]	
Front glass	high-transparency	Transparent	
	Thickness [mm] / [in]	3,2 / 0,126	
Backsheet	White		
Encapsulant	EVA	Transparent	
Frame	Anodized aluminum alloy	Silver or black	
Junction box	Standard	IP68	
	Bypass diodes	3	
UV-resistant	Length [mm] / [in]	1300 / 51,18	
cables	Section [mm <sup>2</sup> ]	4	
Connectors	MC4	compatible	
Dimensions	HxLxW [mm]	2094 x 1038 x 35	
	HxLxW [in]	82,44 x 40,86 x 1,37	
Weight	[kg] / [lbs]	23 / 50,69	
Maximum load	Wind / Snow [Pa]	2400 / 5400	

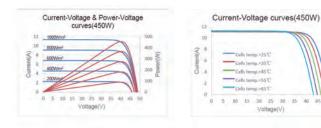
CERTIFICATION	S		
System	ISO 9001, ISO 14001, OHSAS 18001	EC 61215	
Product	IEC 61215-1/-2:2016 (EN: 2017)	TÜVRheinland	otion
	IEC 61730-1/-2:2016 (EN: 2018)	CERTIFIED Www.durv.com ID 1111221820	





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TEMPERATURE CHARACTERISTICS			
NMOT	[°C]	41± 2	
Pmax Temp. Coefficient ( $\gamma$ )	[%/°C]	-0.35	
Voc Temp. Coefficient ( $\beta$ )	[%/°C]	-0.27	
lsc Temp.Coefficient ( <b>a</b> )	[%/°C]	+0.05	
Operating temperature	[°C]	-40~+85	



WARRANTIES		
Product warranty	[years]	15 (opt. ext. to 20)
Performance warranty (linear) <sup>5</sup>	[years]	25

PACKAGING			
Packing configuration	[pcs/pallet]	31	
Loading capacity	[pcs/40 ft container]	682	