

PHOTOVOLTAIC MODULE AS-M1444 (M10 CELLS)





540- 550 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 (M10) and multibusbar 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 Eff iciency modules (glass-backsheet) are covered by 5 years warranty on the product and 25 years warranty on performance.

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-M1444-H(M10)-540/545/550, silver frame AS-M1444Z-H(M10)-540/545/550, <u>black frame</u>

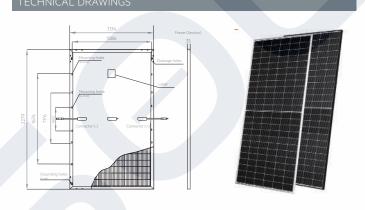


AS-M1444-H(M10-CELLS)

PRODUCT SERIES & NAMECODE (PNC)
AEG HIGH EFFICIENCY SERIES
AS-M1444-H(M10)-540/545/550/HV, silver frame
AS-M1444Z-H(M10)-540/545/550/HV, black frame

CERTIFICATIONS	CERTIFICATIONS		
System	ISO 9001, ISO 14001, OHSAS 18001		
Product	IEC 61215-1/-2:2016, IEC61215-1-1:2016		
	IEC 61730-1/-2:2016		

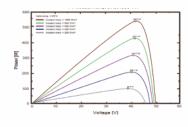
LECTRICAL CHARACTERISTICS AT STC12				
Nominal Power (Pmax)	[Wp]	540	545	550
Power Sorting ³	[Wp]	-0/+5	-0/+5	-0/+5
Maximum Power Voltage (Vmp)	[V]	41.70	41.92	42.11
Maximum Power Current (Imp)	[A]	12.95	13.00	13.06
Open Circuit Voltage (Voc)	[V]	49.95	50.04	50.28
Short Circuit Current (Isc)	[A]	13.78	13.84	13.90
Module Efficiency (nm)	[%]	20.9	21.1	21.3
Maximum System Voltage	[V]	1500	1500	1500
Series Fuse Maximum Rating	[A]	25	25	25

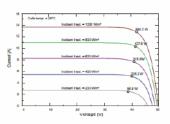


MECHANICAL CHARACTERISTICS			
Solar cells	monocrystalline [pcs]	144	
	Dimensions [mm]	M10 Half-cut [182 x 91]	
Facet along	high-transparency	Transparent	
Front glass	Thickness [mm] / [in]	3.2 / 0.126	
Backsheet	White		
Encapsulant	EVA	Transparent	
Frame	Anodized aluminum alloy	Silver or black	
Junction box	Split-type		
Junction box	Bypass diodes	3	
UV-resistant	Length [mm] / [in]	1400 / 55.12	
cables	Section [mm ²]	4	
Connectors	MC4	compatible	
C	H x L x W [mm]	2279 x 1134 x 35	
Dimensions	HxLxW [in]	89.72 x 44.65 x 1.38	
Weight	[kg] / [lbs]	27 / 59.51	
Maximum load	Wind / Snow [Pa]	2400 / 5400	

TEMPERATURE CHARACTERISTICS		
NMOT	[°C]	45±2
Pmax Temp. Coefficient (γ)	[%/°C]	-0.354
Voc Temp. Coefficient (β)	[%/°C]	-0.266
Isc Temp.Coefficient (α)	[%/°C]	0.046
Operating temperature	[°C]	-40~+85

I/V CURVES - IRRADIANCES





PACKAGING		
Packing configuration	[pcs/pallet]	31
Loading capacity	[pcs/40 ft container]	620

WARRANTIES			
Product warranty	[years]	25	
Performance warranty (linear) ⁵	[years]	25	

CONTACT



-Standard Test Conditions (STC): Irradiance 1000 W/m², Air Mass AM = 1.5, Cell Temperature 25°C

2-Measurement tolerances (IEC 61215:2016): Pmax±3%, Voc±2%, Isc±25

3-AEG photovoltaic modules are classified according to a principle of positive power tolerance: the Power Output measured at STC of the delivered modules exceeds their assigned Nameplate Nominal Power

NMOT: Nominal operating temperature of module, Irradiance 800 W/m², Wind Speed 1m/s; Ambient Temperature 20°C, Air Mass AM=1.5

-(HE/GB)No less than 98% of the minimum "Peak Power at STC in the first year, power output decline no more than 0.55% per hereafter. Full text of the Warranty Terms available at: www.solarsolutions.ag/aeg/warranty

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