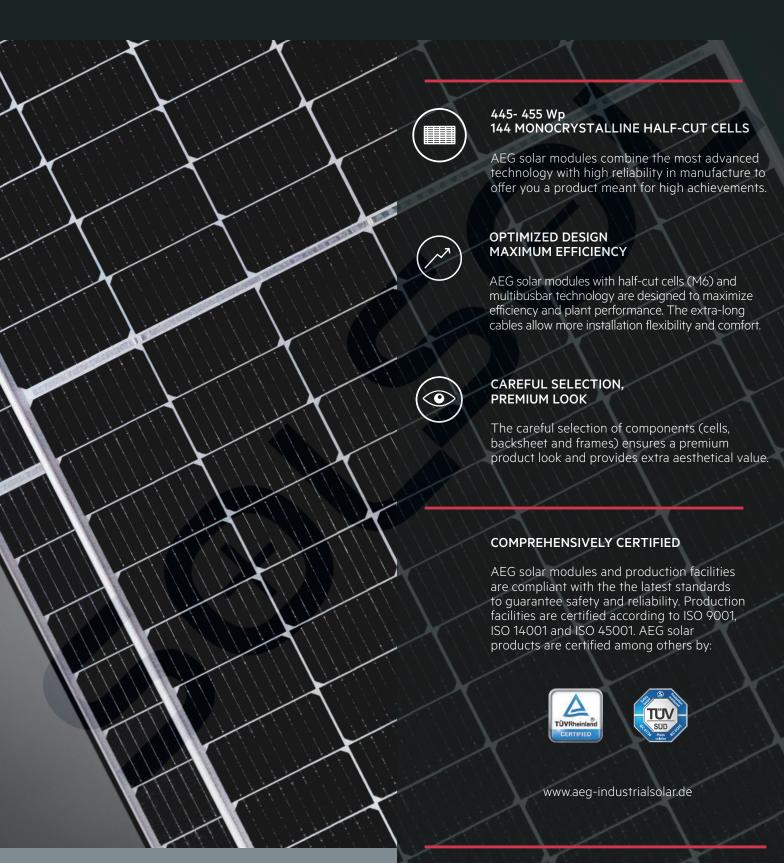


PHOTOVOLTAIC MODULE AS-M144(X) * (M6 CELLS)



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







PRODUCT SERIES & NAMECODE (PNC)
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

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		

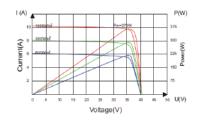
ELECTRICAL CHARACTERISTICS AT STC12				
Nominal Power (Pmax)	[Wp]	445	450	455
Power Sorting ³	[Wp]	-0/+5	-0/+5	-0/+5
Maximum Power Voltage (Vmp)	[V]	40.77	40.91	41.04
Maximum Power Current (Imp)	[A]	10.92	11.01	11.10
Open Circuit Voltage (Voc)	[V]	50.12	50.27	50.42
Short Circuit Current (Isc)	[A]	11.35	11.43	11.51
Module Efficiency (η m)	[%]	20.47	20.70	20.93
Maximum System Voltage	[V]	1000	1000	1000
Series Fuse Maximum Rating	[A]	20	20	20
, 3				

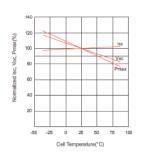
-	1038	Frame (Se			
Mountin	g holes	Grounding holes Drainage holes	U(V2)	TE:	
5000		Label			
Connector (-)	0				
Connector (-)		Connector (+)			
<u>'</u>					

ELECTRICAL CHARACTERISTICS AT NMOT ⁴				
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

TEMPERATURE CHARACTERISTICS				
NMOT	[°C]	42±3		
Pmax Temp. Coefficient (γ)	[%/°C]	-0.365		
Voc Temp. Coefficient (β)	[%/°C]	-0.270		
Isc Temp.Coefficient (α)	[%/°C]	+0.038		
Operating temperature	[°C]	-40~+85		

MECHANICAL CHARACTERISTICS		
Solar cells	Solar cells monocrystalline [pcs]	
	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 ^{2]}	4
Connectors	MC4	compatible
Dimensions	Dimensions HxLxW [mm] (V1)	
HxLxW [mm] (V2, op		2094 x 1038 x 40
Weight	[kg]	24.3 (V1) / 24.6 (V2)
Maximum load	Wind / Snow [Pa]	2400 / 5400





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

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