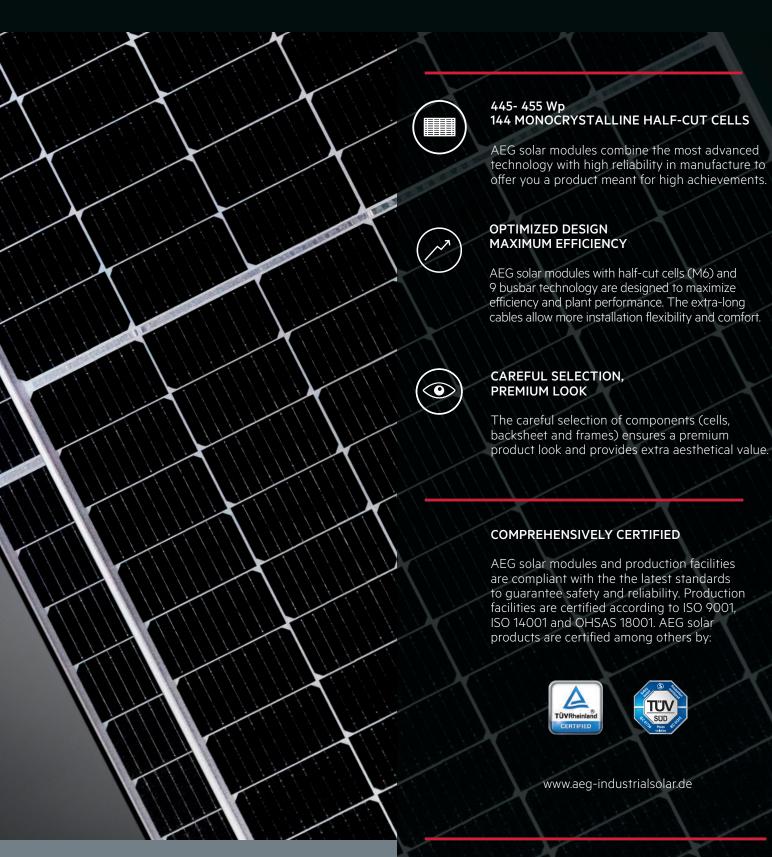


PHOTOVOLTAIC MODULE AS-M1442 (M6 CELLS)



HIGH EFFICIENCY SERIES



PRODUCT NAMECODE (PNC)

AS-M1442-H(M6)-445/450/455, silver frame AS-M1442Z-H(M6)-445/450/455, black frame





PRODUCT SERIES & NAMECODE (PNC)		
AEG HIGH EFFICIENCY SERIES		
AS-M1442-H(M6)-440/445/450, silver frame		
AS-M1442Z-H(M6)-440/445/450, black frame		

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

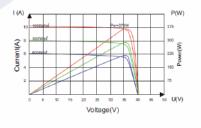
ELECTRICAL CHARACTERISTICS AT STC12				
Nominal Power (Pmax)	[Wp]	445	450	455
Power Sorting ³	[Wp]	-0/+5	-0/+5	-0/+5
Maximum Power Voltage (Vmp)	[V]	40.77	40.91	41.04
Maximum Power Current (Imp)	[A]	10.92	11.01	11.10
Open Circuit Voltage (Voc)	[V]	50.12	50.27	50.42
Short Circuit Current (Isc)	[A]	11.35	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

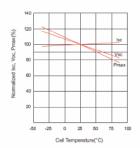
1038 Frame (Section) 988 55 (V1): 40 (V2)	TECHNICAL DRAWINGS	
Mounting holes Chanadar holes Connector (-) Connector (-)	988 35 CVD, 40 (V2) Strong holes Grounding holes Darrage holes Connector (*)	

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	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 [mm2]	4
Connectors	MC4	compatible
Dimensions	HxLxW [mm] (V1)	2094 x 1038 x 35
	HxLxW [mm] (V2, optional)	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)

