



# TWMHF-66HD685-705W

N-type Half-cell Bifacial Module (66)

## PRODUCT FEATURES



High Power Output  
Low LCOE



Maximum Power  
705W+



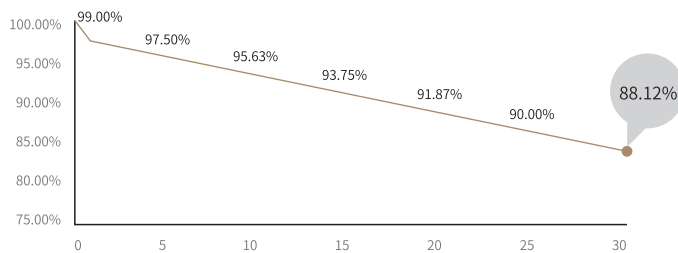
High Reliability



Low LID

## POWER WARRANTY

1st year <1%, 0.375% power degradation per year from 2 to 30 years



12-year Warranty for Materials



30-year Warranty for Linear Power Output

## MANAGEMENT SYSTEM AND PRODUCT CERTIFICATION

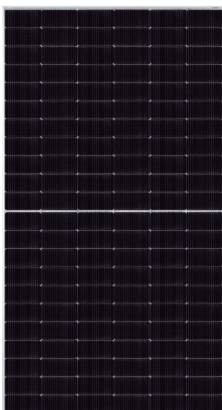
ISO9001: 2015/Quality Management System

ISO14001: 2015/Environment Management System

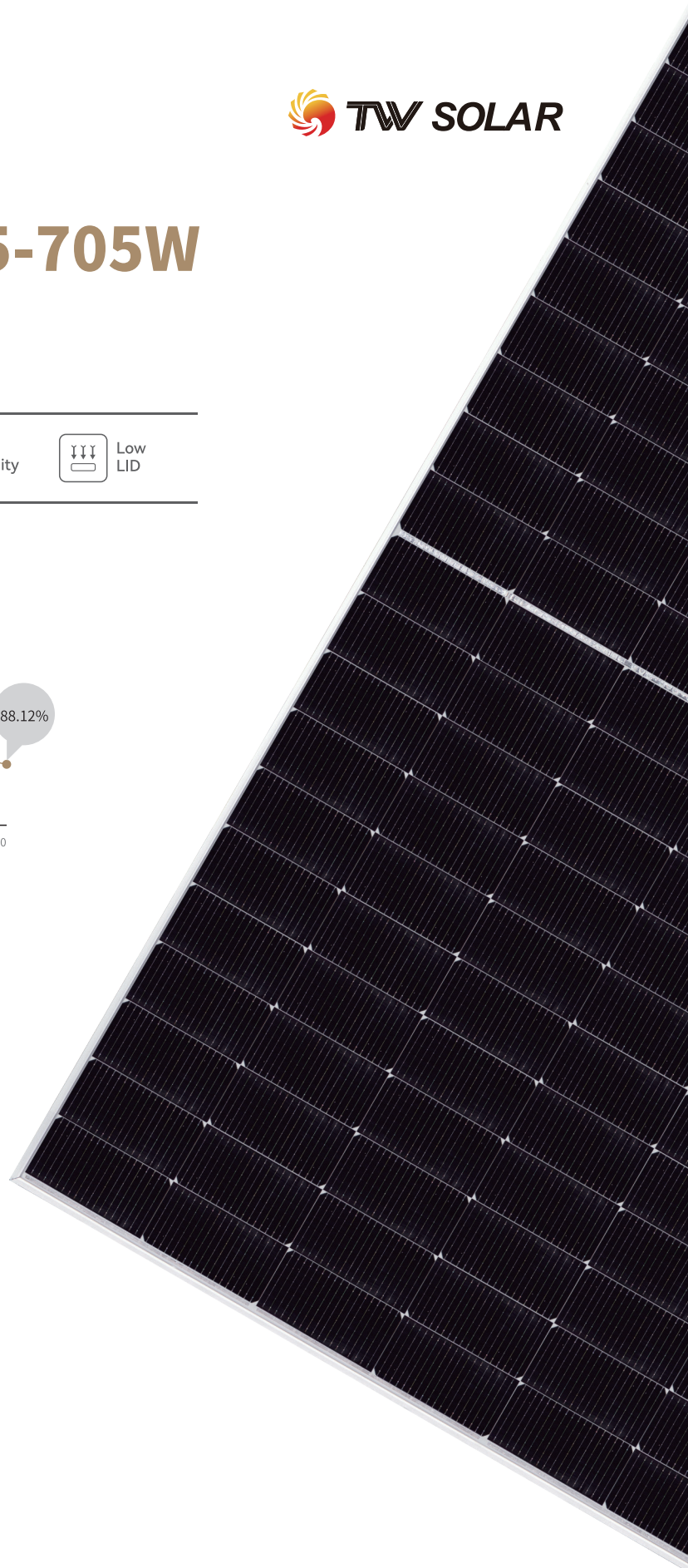
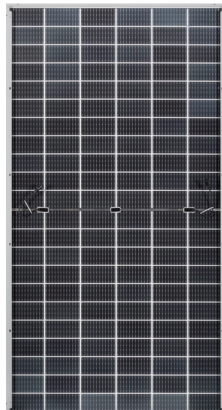
ISO45001: 2018/Occupational Health and Safety Management System



Front



Rear



### Electrical Characteristics (STC)

Module Type: TWMHF-66HDXXX					
Maximum Power: Pmax [W]	685	690	695	700	705
Open Circuit Voltage: Voc [V]	48.96	49.16	49.36	49.57	49.78
Short Circuit Current: Isc [A]	17.52	17.57	17.62	17.67	17.73
Voltage at Maximum Power: Vmp [V]	41.20	41.38	41.57	41.75	41.94
Current at Maximum Power: Imp [A]	16.63	16.68	16.72	16.77	16.81
Module Efficiency: $\eta$ [%]	22.1	22.2	22.4	22.5	22.7
STC: Irradiance 1000W/m <sup>2</sup> , Cell Temperature 25°C, Air Mass1.5, Measuring Tolerance: $\pm$ 3%					

### Electrical Characteristics (NMOT)

Maximum Power: Pmax [W]	520	523	527	531	535
Open Circuit Voltage: Voc [V]	46.4	46.6	46.8	47.0	47.2
Short Circuit Current: Isc [A]	13.96	14.00	14.04	14.08	14.13
Voltage at Maximum Power: Vmp [V]	38.8	39.0	39.2	39.3	39.5
Current at Maximum Power: Imp [A]	13.39	13.43	13.46	13.49	13.52
NMOT: Irradiance 800W/m <sup>2</sup> , Ambient Temperature 20°C, Air Mass1.5, Wind Speed 1m/s					

### Electrical characteristics with different rear side power gain

5%	Maximum Power: Pmax[W]	719	725	730	735	740
	Module Efficiency: $\eta$ [%]	23.2	23.3	23.5	23.7	23.8
15%	Maximum Power: Pmax[W]	788	794	799	805	811
	Module Efficiency: $\eta$ [%]	25.4	25.5	25.7	25.9	26.1
25%	Maximum Power: Pmax[W]	856	863	869	875	881
	Module Efficiency: $\eta$ [%]	27.6	27.8	28.0	28.2	28.4

### Temperature Ratings

Temperature Coefficient (Pmax)	-0.26%/°C
Temperature Coefficient (Voc)	-0.24%/°C
Temperature Coefficient (Isc)	0.04%/°C
NMOT	44 $\pm$ 2°C

### Mechanical Parameters

Cells	THC
Cell Orientation	132[6X22]
Dimension	2384 $\pm$ 2 X1303 $\pm$ 2X35mm
Weight	38.7kg
Front Glass	2.0mm high transmittance, AR coated tempered glass
Rear Glass	2.0mm high transmittance, coated tempered glass
Frame	Anodized aluminum alloy frame
Junction Box	IP68, 3 diodes
Output Cable	4.0mm <sup>2</sup>
Cable Length	+400mm, -200mm, length can be customized
Wind/Snow Load	2400Pa/5400Pa
Packaging	31pcs per pallet, 558pcs per 40HC

### Operating Parameters

Operational Temperature	-40°C~+85°C
Maximum System Voltage	1500V DC
Maximum Series Fuse Rating	35A
Power Output Tolerance	0~+5W
Maximum Bifaciality	80 $\pm$ 5%

### Drawings (Unit: mm)

