



TWMNF

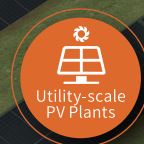
N-type Half-cell
Bifacial Module (66)

66HD695-715W

High Power Output
Low LCOE



Maximum Power
715W+



Utility-scale
PV Plants



12
YEAR
Materials
Warranty



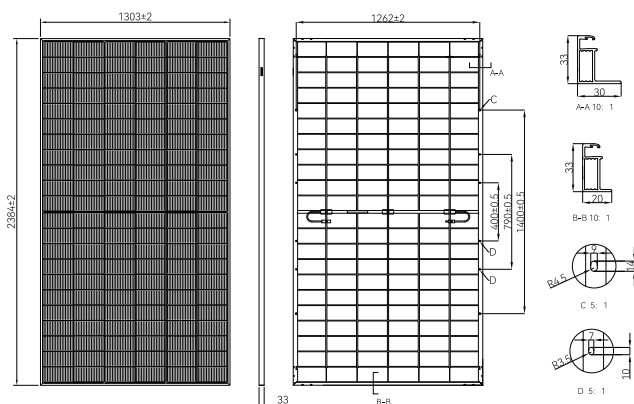
30
YEAR
Power
Warranty

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DRAWINGS (Unit: mm)



ELECTRICAL CHARACTERISTICS (STC)

Module Type: TWMNF-66HDXXX

Maximum Power: Pmax [W]	695	700	705	710	715
Open Circuit Voltage: Voc [V]	48.43	48.60	48.77	48.94	49.11
Short Circuit Current: Isc [A]	18.30	18.35	18.40	18.45	18.50
Voltage at Maximum Power: Vmp [V]	40.18	40.35	40.52	40.69	40.86
Current at Maximum Power: Imp [A]	17.30	17.35	17.40	17.45	17.50
Module Efficiency: η [%]	22.4	22.5	22.7	22.9	23.0

* STC: Irradiance 1000W/m², Cell Temperature 25°C, Air Mass1.5, Measuring Tolerance: ±3%

ELECTRICAL CHARACTERISTICS (NMOT)

Maximum Power: Pmax [W]	523	526	530	534	538
Open Circuit Voltage: Voc [V]	46.01	46.17	46.33	46.49	46.65
Short Circuit Current: Isc [A]	14.77	14.82	14.86	14.90	14.94
Voltage at Maximum Power: Vmp [V]	37.44	37.55	37.73	37.90	38.08
Current at Maximum Power: Imp [A]	13.97	14.01	14.05	14.09	14.13

* NMOT: Irradiance 800W/m², Ambient Temperature 20°C, Air Mass1.5, Wind Speed 1m/s

ELECTRICAL CHARACTERISTICS (Rear Power Gain)

5%	Maximum Power: Pmax[W]	729	735	740	745	750
	Module Efficiency: η [%]	23.5	23.7	23.8	24.0	24.1
15%	Maximum Power: Pmax[W]	799	805	810	816	822
	Module Efficiency: η [%]	25.7	25.9	26.1	26.3	26.5
25%	Maximum Power: Pmax[W]	868	875	881	887	893
	Module Efficiency: η [%]	27.9	28.2	28.4	28.6	28.7

TEMPERATURE PARAMETERS

Temperature Coefficient (Pmax)	-0.28%/°C
Temperature Coefficient (Voc)	-0.24%/°C
Temperature Coefficient (Isc)	+0.046%/°C
NMOT	45±2°C

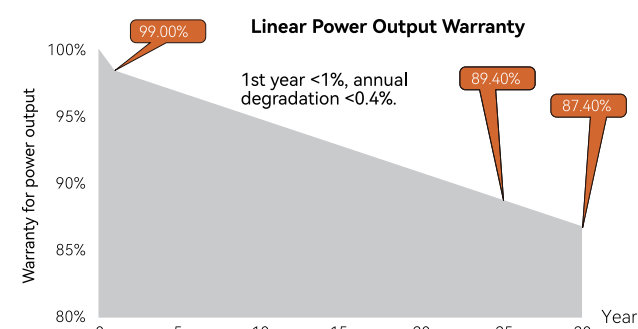
MAXIMUM RATINGS

Operational Temperature	-40°C~+85°C
Maximum System Voltage	1500V DC
Maximum Series Fuse Rating	35A
Power Output Tolerance	0~+3%
Bifaciality	80±5%

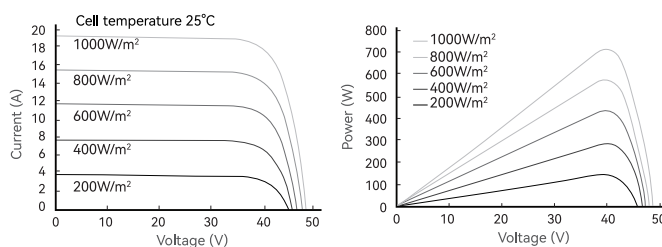
MECHANICAL PARAMETERS

Cells	TNC (N Type Monocrystalline Cell)
Cell Orientation	132[6×22]
Dimension	2384±2 × 1303±2×33mm
Weight	37.9kg
Front Glass	2.0mm high transmittance, AR semi-tempered glass
Rear Glass	2.0mm semi-tempered glass
Frame	Anodized aluminum alloy frame
Junction Box	IP68, 3 diodes
Output Cable	4.0mm ²
Cable Length	+400mm, -200mm, or ±1400mm, length can be customized
Wind/Snow Load	2400Pa/5400Pa
Packaging	33pcs per pallet, 594pcs per 40'HC

WARRANTY



I-V CURVE



CERTIFICATIONS

Quality Management System and Product Certification

ISO 9001: 2015/Quality management system
ISO 14001: 2015/Environmental management system
ISO 45001: 2018/Occupation health safety management system
ISO 50001: 2018/Energy management system
IEC 62941: 2019/Quality system for PV module manufacturing
IEC 61215/61730, IEC 62804(PID), IEC 61701(Salt),
IEC 62716 (Ammonia), IEC 60068-2-68(Sand)

