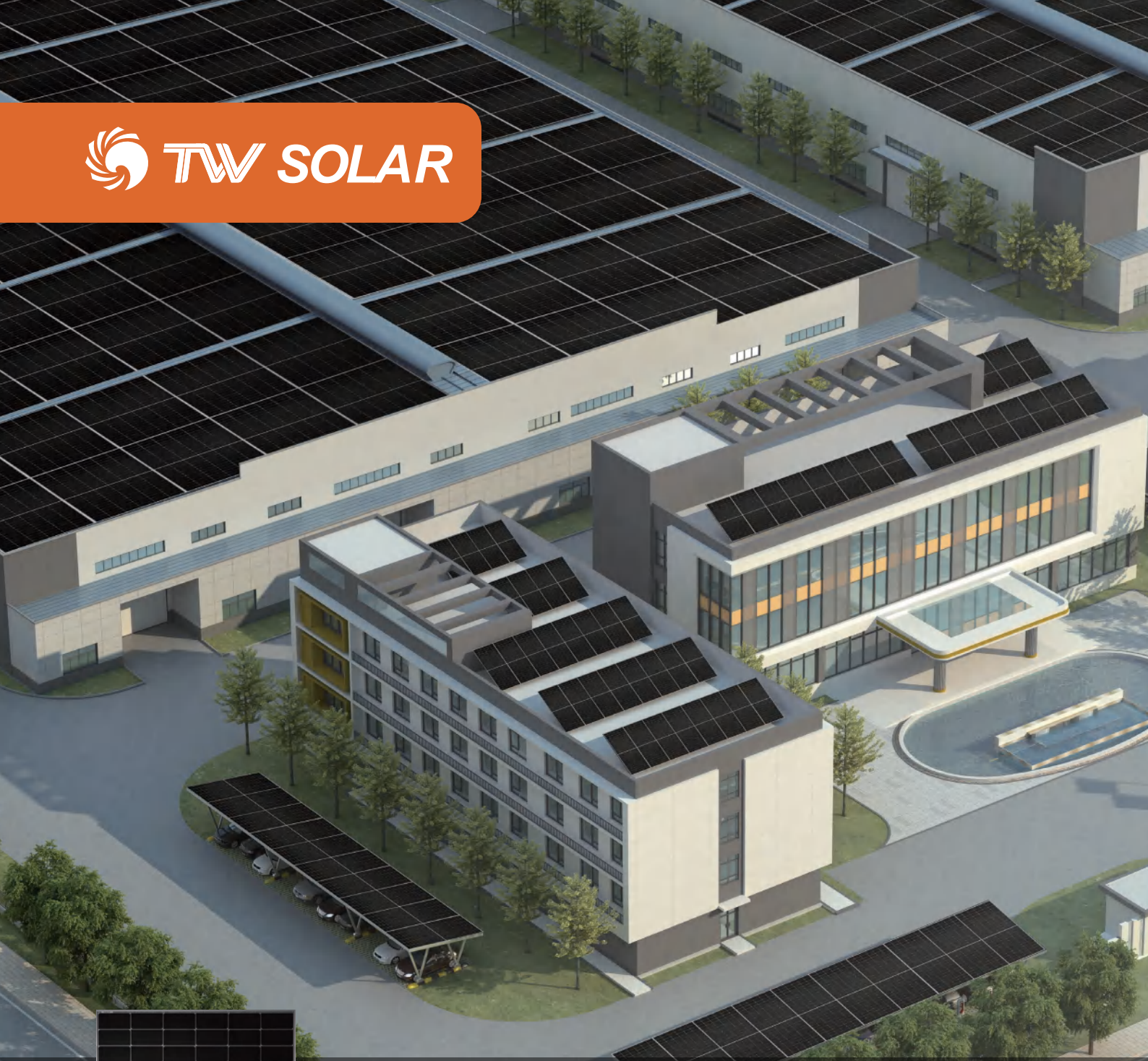

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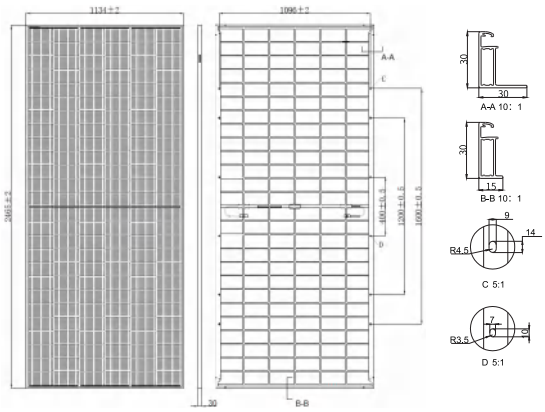
78HD585-605W

DRAWINGS (Unit: mm)



MECHANICAL PARAMETERS

Cells	TPC (P Type Monocrystalline Cell)
Cell Orientation	156[6X26]
Dimension	2465±2X1134±2X30mm
Weight	34.6kg
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	4.0mm²
Cable Length	+400mm, -200mm, length can be customized
Wind/Snow Load	2400Pa/5400Pa
Packaging	36pcs per pallet, 576pcs per 40'HC

ELECTRICAL CHARACTERISTICS (STC)

Module Type: TWMPD-78HDXXX					
Maximum Power: Pmax [W]	585	590	595	600	605
Open Circuit Voltage: Voc [V]	53.65	53.85	54.05	54.25	54.45
Short Circuit Current: Isc [A]	13.98	14.03	14.08	14.13	14.18
Voltage at Maximum Power: Vmp [V]	44.20	44.40	44.60	44.80	45.00
Current at Maximum Power: Imp [A]	13.24	13.29	13.34	13.39	13.45
Module Efficiency: η [%]	20.9	21.1	21.3	21.5	21.6

ELECTRICAL CHARACTERISTICS (NMOT)

Maximum Power: Pmax [W]	442.7	446.5	450.3	454.1	457.9
Open Circuit Voltage: Voc [V]	50.25	50.53	50.80	50.99	51.18
Short Circuit Current: Isc [A]	11.20	11.24	11.28	11.30	11.34
Voltage at Maximum Power: Vmp [V]	40.93	41.16	41.38	41.57	41.76
Current at Maximum Power: Imp [A]	10.81	10.85	10.88	10.93	10.98

* STC: Irradiance 1000W/m², Cell Temperature 25℃, Air Mass1.5, Measuring Tolerance: ±3%
* NMOT: Irradiance 800W/m², Ambient Temperature 20℃, Air Mass1.5, Wind Speed 1m/s

ELECTRICAL CHARACTERISTICS (Rear Power Gain)

5%	Maximum Power: Pmax[W]	614.3	619.5	624.8	630.0	635.3
	Module Efficiency: η [%]	22.0	22.2	22.3	22.5	22.7
15%	Maximum Power: Pmax[W]	672.8	678.5	684.3	690.0	695.8
	Module Efficiency: η [%]	24.1	24.3	24.5	24.7	24.9
25%	Maximum Power: Pmax[W]	731.3	737.5	743.8	750.0	756.3
	Module Efficiency: η [%]	26.2	26.4	26.6	26.8	27.1

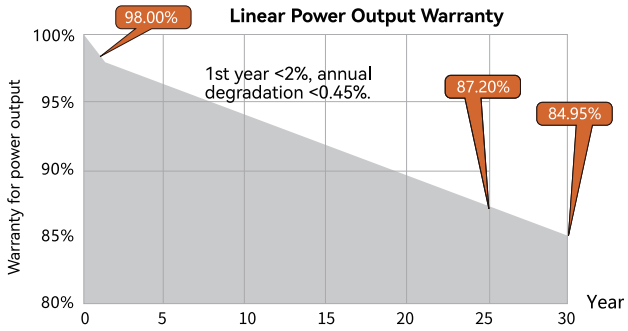
TEMPERATURE PARAMETERS

Temperature Coefficient (Pmax)	-0.33%/℃
Temperature Coefficient (Voc)	-0.27%/℃
Temperature Coefficient (Isc)	+0.05%/℃
NMOT	45±2℃

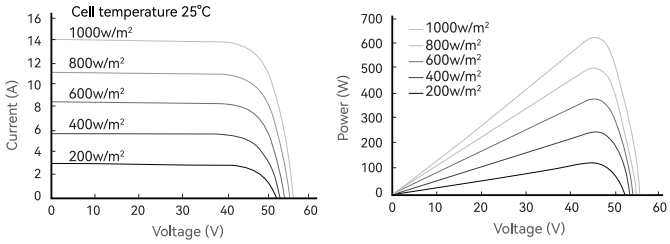
MAXIMUM RATINGS

Operational Temperature	-40℃~+85℃
Maximum System Voltage	1500V DC
Maximum Series Fuse Rating	30A
Power Output Tolerance	0~+5W
Maximum Bifaciality	70±5%

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 50001:2011 / energy management system
IEC TS 62941—2016 / PV industry quality management system
IEC 61215/61730、IEC 62804(PID)、IEC 61701(Salt)、
IEC 62716 (Ammonia)、IEC 60068-2-68(Sand)

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Declaration: With the technical progress and product updates,there exists a deviation between the technical parameter of the TW Solar's future products and the technical parameter in this specification, The TW Solar reserves the right to adjust the technical parameter at any time without notifying the customers, TW Solar reserves the final right of interpretation. (20230802_A1)