

605W



NPV605W

NPV Type Double Glass Bifacial Modules

Premium Cells

NPV Type
16BB

MBB Half-Cell
Technology

26%

Up to

Cell Conversion
Efficiency

Premium Modules



Higher power
generation
better LCOE



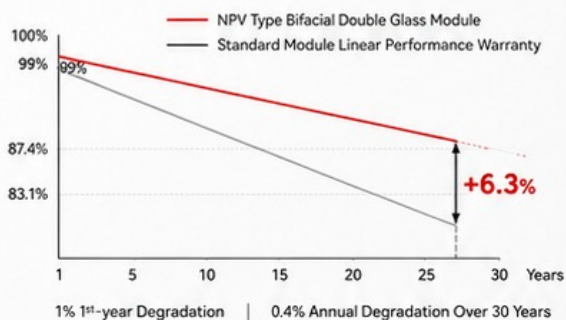
Lower LID
better reliability



Better Temperature
Coefficient



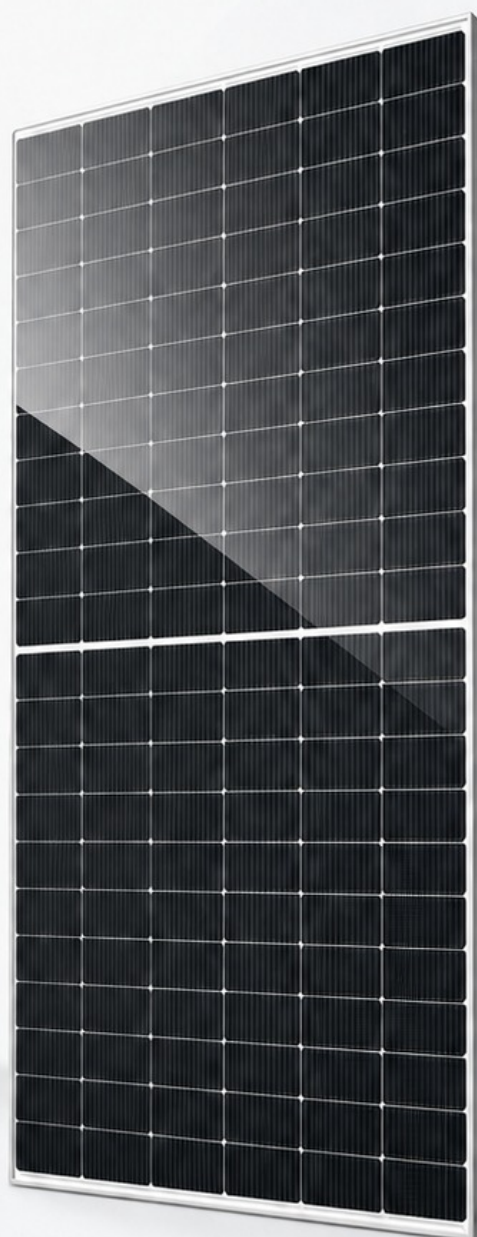
Better low irradiance
response



12-year
product warranty



30-year
linear power output
warranty



Comprehensive Certificates (In Development)

- IEC 61215, IEC 61730, UL 61215, UL 61730
- ISO 9001:2015 Quality management systems
- ISO 14001:2015 Environmental management systems
- ISO 45001:2018 Occupational health and safety management systems
- IEC 62941:2019 Terrestrial photovoltaic (PV) modules – Quality system for PV module manufacturing



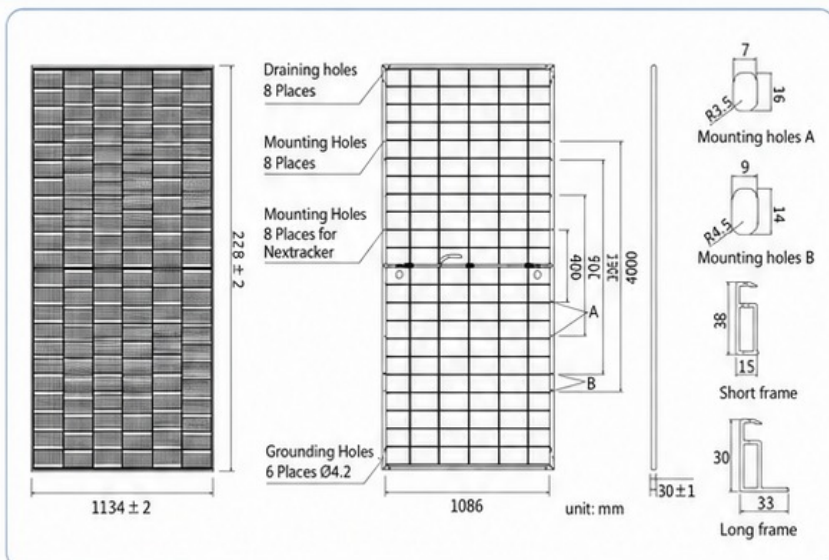
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MECHANICAL PARAMETERS

Cell	Mono
Weight	31.8 kg
Dimensions	2278 ± 2 mm × 1134 ± 2 mm × 30 ± 1 mm
Cable Cross Section Size	4 mm ² (IEC), 12 AWG (UL)
No. of cells	132(6 × 22)
Junction Box	IP68, 3 diodes
Connector	QC 4.10-351 / MC4-EVO2A
Cable Length	Portrait: 300 mm (+) / 400 mm (-) Landscape: 1300 mm (+) / 1300 mm (-)
Front Glass / Back Glass	2.0 mm / 2.0 mm
Packaging Configuration	36 pcs / Pallet, 720 pcs / 40HQ Container

Remark: customized frame color and cable length available upon request



ELECTRICAL PARAMETERS AT STC

TYPE	NPV605W-580	NPV605W-585	NPV605W-590	NPV605W-595	NPV605W-600	NPV605W-605
Rated Maximum Power (P _{max}) [W]	580	585	590	595	600	605
Open Circuit Voltage (V _{oc}) [V]	48.18	48.38	48.58	48.78	48.98	49.19
Maximum Power Voltage (V _{mp}) [V]	40.42	40.63	40.84	41.03	41.24	41.44
Short Circuit Current(I _{sc}) [A]	15.21	15.26	15.31	15.36	15.41	15.46
Maximum Power Current(I _{mp}) [A]	14.35	14.40	14.45	14.50	14.55	14.60
Module Efficiency [%]	22.5	22.6	22.8	23.0	23.2	23.4
Power Tolerance	0 ~ +3%					
Temperature Coefficient of I _{sc} (α _{Isc})	+0.045%/°C					
Temperature Coefficient of V _{oc} (β _{Voc})	-0.250%/°C					
Temperature Coefficient of P _{max} (γ _{Pmp})	-0.290%/°C					
STC	Irradiance 1000 W/m ² , cell temperature 25°C, AM1.5G					

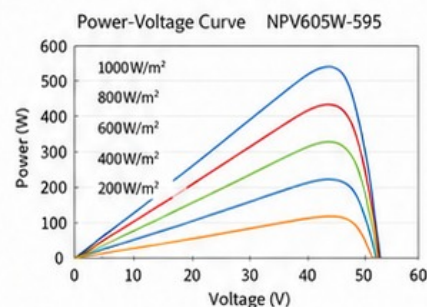
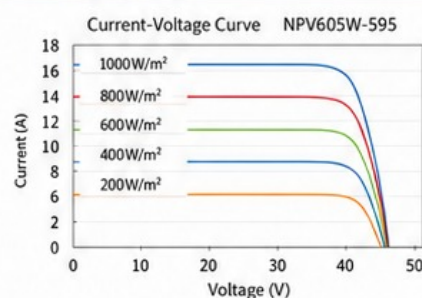
Remark: Electrical data in this catalog do not refer to a single module and they are not part of the offer. They only serve for comparison among different module types.

ELECTRICAL CHARACTERISTICS WITH 10% SOLAR IRRADIATION RATIO

TYPE	NPV605W-580	NPV605W-585	NPV605W-590	NPV605W-595	NPV605W-600	NPV605W-605
Rated Max Power (P _{max}) [W]	626	632	637	643	648	653
Open Circuit Voltage (V _{oc}) [V]	48.18	48.38	48.58	48.78	48.98	49.19
Max Power Voltage (V _{mp}) [V]	40.42	40.63	40.84	41.03	41.24	41.44
Short Circuit Current(I _{sc}) [A]	16.43	16.48	16.53	16.59	16.64	16.70
Max Power Current(I _{mp}) [A]	15.50	15.55	15.61	15.66	15.71	15.77
Irradiation Ratio (rear/front)	10%					

* For NexTracker installations, maximum static load please take compatibility approve letter between JA Solar and NexTracker for reference.

CHARACTERISTICS



OPERATING CONDITIONS

Maximum System Voltage	1500 V DC
Operating Temperature	-40°C ~ +85°C
Maximum Series Fuse Rating	30 A
Maximum Static Load, Front*	5400 Pa (112 lb/ft ²)
Maximum Static Load, Back*	2400 Pa (50 lb/ft ²)
NOCT	45 ± 2°C
Bifaciality	80% ± 5%
Safety Class	Class II
Fire Performance	UL Type 29 / Class C



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