

640W

NPV640W

NPV Type Double Glass Bifacial Modules



Premium Cells

NPV Type
18BB

MBB
Half-Cell
Technology

Premium Modules



Superior energy yield for lower LCOE



High-efficiency with advanced NPV Type cell technology

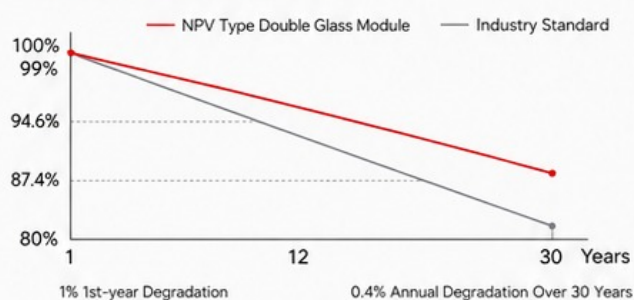


Higher power output with high-density module design



Excellent reliability, certified by authoritative institutions

Linear Performance Warranty



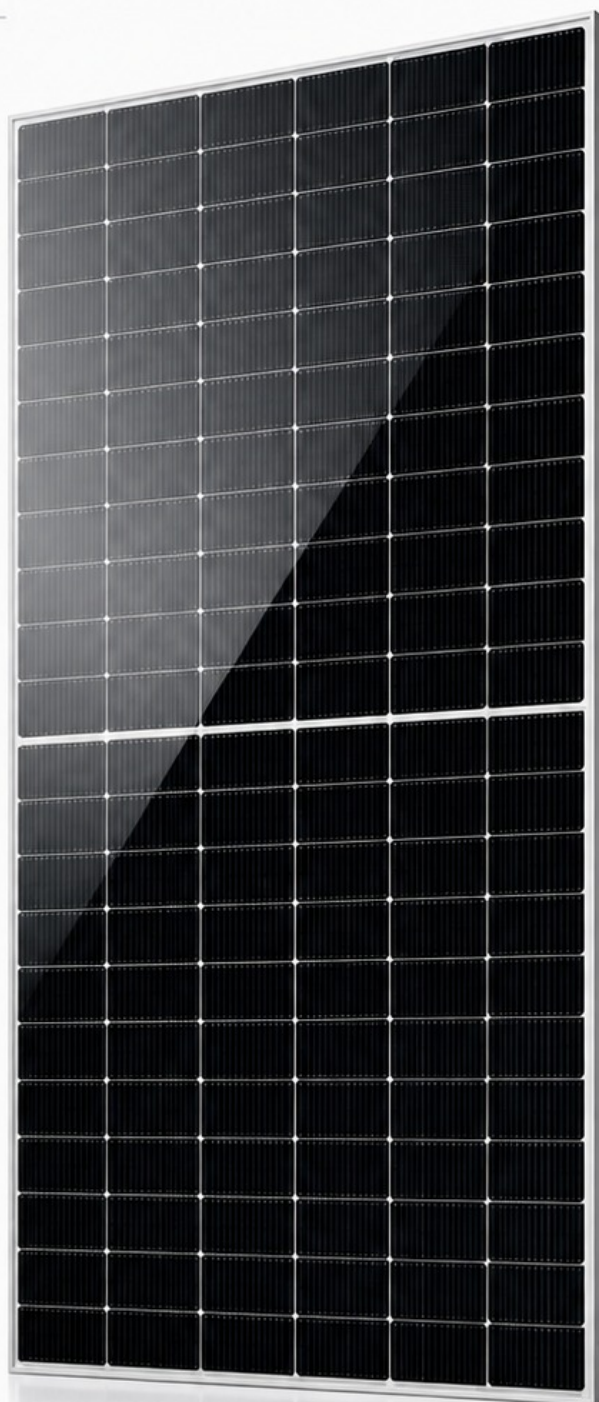
12-year
product warranty



30-year
linear power output
warranty

Comprehensive Certificates (In Development)

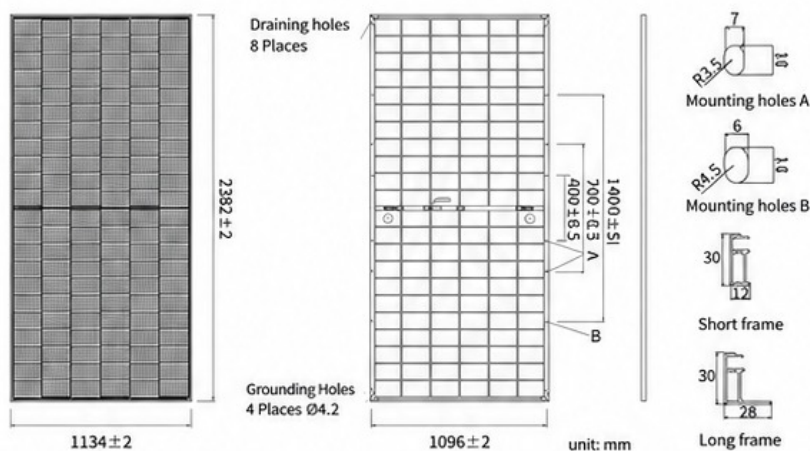
- IEC 61215, IEC 61730, UL 61215, UL 61730
- ISO 9001: 2015 Quality management systems
- ISO 14001: 2015 Environmental management systems
- ISO 45001: 2018 Occupational health and safety management systems
- IEC 62941: 2019 Terrestrial photovoltaic (PV) modules – Quality system for PV module manufacturing



CE | IEC

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MECHANICAL PARAMETERS

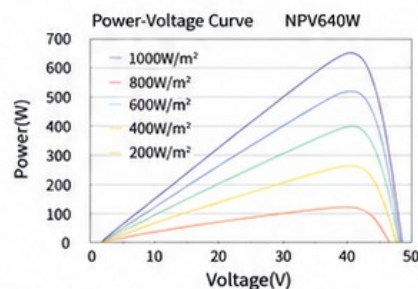
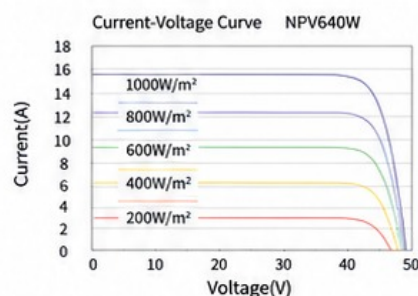
Cell	Mono
Weight	32.8kg
Dimensions	2382±2mm × 1134±2mm × 30±1mm
Cable Cross Section Size	4mm ² (IEC), 12 AWG(UL)
No. of cells	132(6 × 22)
Junction Box	IP68, 3 diodes
Connector	QC 4.10-351 / MC4-EVO2A
Cable Length	Portrait: 400mm(+)/200mm(-)
(Including Connector)	Landscape: 1400mm(+)/1400mm(-)
Frame	Anodized Aluminium Alloy
Front Glass	2.0mm, Anti-reflection Coating
Back Glass	2.0mm, Heat Strengthened Glass
Packaging Configuration	36pcs/Pallet, 720pcs/40HQ Container
Remark	customized frame color and cable length available upon request

ELECTRICAL PARAMETERS AT STC

TYPE	NPV640W-615	NPV640W-620	NPV640W-625	NPV640W-635	NPV640W-640
Rated Maximum Power(P _{max}) [W]	615	620	625	635	640
Open Circuit Voltage (V _{oc}) [V]	48.30	48.50	48.70	48.90	49.39
Maximum Power Voltage(V _{mp}) [V]	39.96	40.21	40.45	40.70	41.20
Short Circuit Current(I _{sc}) [A]	16.10	16.13	16.15	16.18	16.24
Maximum Power Current(I _{mp}) [A]	15.39	15.42	15.45	15.48	15.54
Module Efficiency [%]	22.8	23.0	23.1	23.3	23.7
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 1000W/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.

CHARACTERISTICS



ELECTRICAL PARAMETERS AT BNPI

TYPE	NPV640W-615	NPV640W-620	NPV640W-630	NPV640W-635	NPV640W-640
Rated Max Power(P _{max}) [W]	675	680	685	695	707
Open Circuit Voltage(V _{oc}) [V]	48.30	48.50	48.70	48.90	49.39
Max Power Voltage(V _{mp}) [V]	39.96	40.21	40.45	40.70	41.20
Short Circuit Current(I _{sc}) [A]	17.68	17.70	17.71	17.85	17.93
Max Power Current(I _{mp}) [A]	16.90	16.92	16.94	17.08	17.16
BNPI	Front Irradiance 1000W/m ² , Rear Irradiance 135W/m ² , cell temperature 25°C, AM1.5G				

OPERATING CONDITIONS

Maximum System Voltage	1500V DC
Operating Temperature*	-40°C ~ +70°C
Maximum Series Fuse Rating	35A
Maximum Static Load, Front	5400Pa (112 lb/ft ²)
Maximum Static Load, Back	2400Pa (50 lb/ft ²)
NOCT	45±2°C
Bifaciality	80%±5%
Safety Class	Class II
Fire Performance	UL Type 29 / Class C
*PV module 98 th percentile operating temperature: 70°C	



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