

455W Mono Half-cut PERC

Double Glass Module

435/440/445/450/455



Highest power output



Easy Installation and Handling for Various Application



Heavy snow load up to 5400 Pa,
wind load up to 2400 Pa



Conforms with IEC 61215, IEC 61730, UL 61730

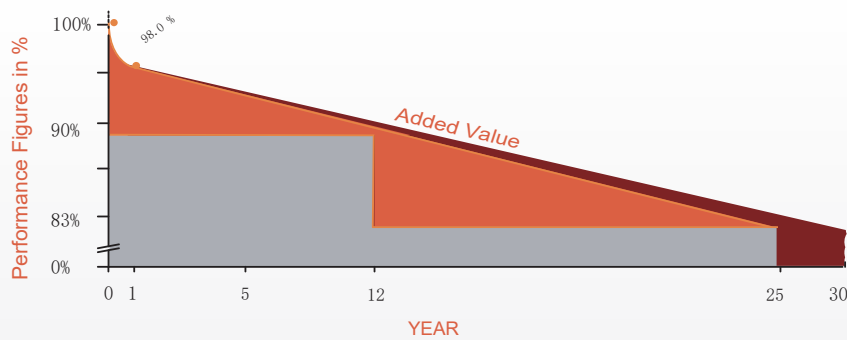
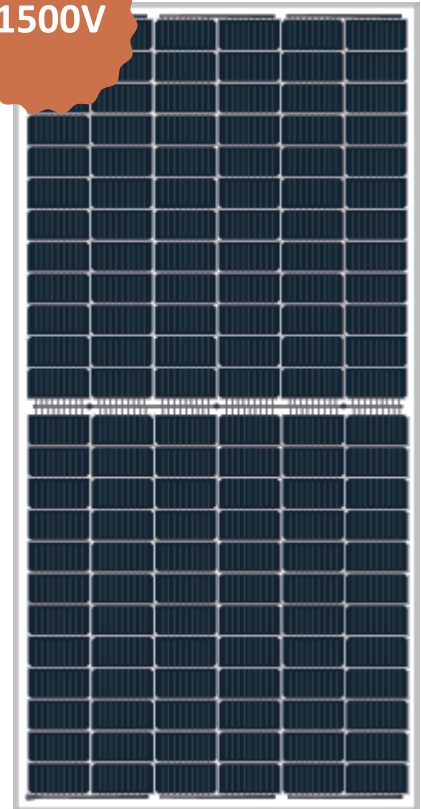


ISO9001, ISO14001, ISO45001



Application Class A, Safety Class II, Fire Class Rating A

1500V



12-year
material & workmanship

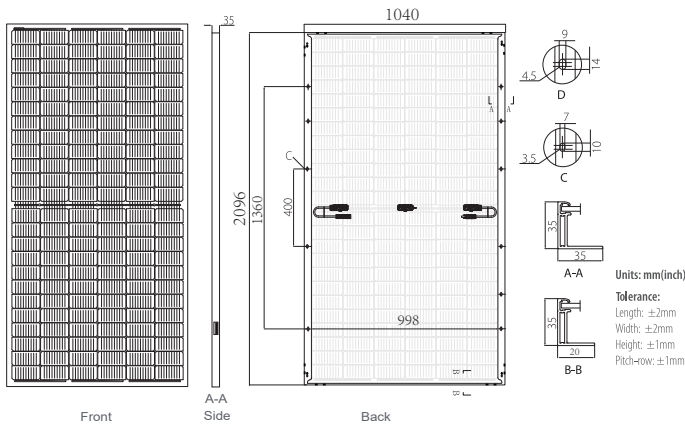
30-year
linear power output



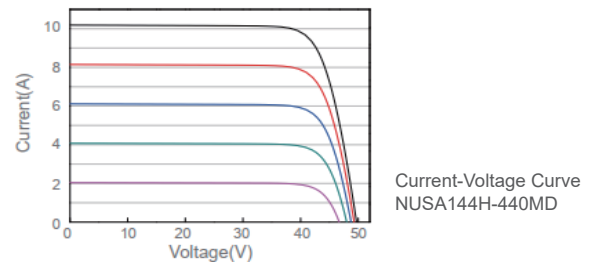
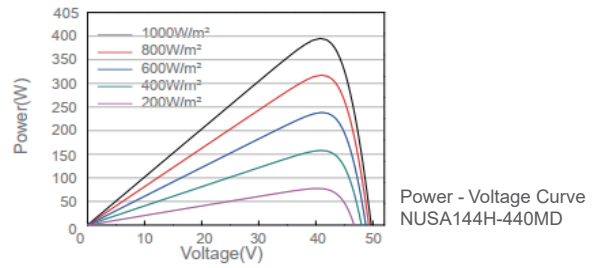
Mono Double-glass Module

435W/440W/445W/450W/455W

Dimension(mm)



I-V Curves



Electrical Characteristics	NUSA144H-435MD	NUSA144H-440MD	NUSA144H-445MD	NUSA144H-450MD	NUSA144H-455MD
Maximum Power (Pmax)[W]	435	440	445	450	455
Maximum Power Voltage (Vmp)[V]	40.80	41.00	41.20	41.40	41.60
Maximum Power Current (Imp)[A]	10.66	10.73	10.80	10.87	10.93
Open Circuit Voltage (Voc)[V]	49.10	49.20	49.40	49.60	49.80
Short Circuit Current (Isc)[A]	11.36	11.45	11.52	11.58	11.65
Module Efficiency[%]	19.96	20.18	20.41	20.64	20.87
Power Tolerance	0~+5W				
STC	Irradiance of 1000W/m ² , AM1.5, cell Temperature 25°C				

*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.

BIFACIAL OUTPUT-REAR SIDE POWER GAIN

5%-Maximum Power (Pmax)	457W	462W	467W	472W	477W
5%-Module Efficiency STC(%)	20.95%	21.22%	21.45%	21.68%	21.91%
15%-Maximum Power (Pmax)	500W	506W	511W	517W	523W
15%-Module Efficiency STC(%)	22.95%	23.24%	23.47%	23.75%	24.03%
25%-Maximum Power (Pmax)	543W	550W	556W	562W	568W
25%-Module Efficiency STC(%)	26.19%	26.49%	26.79%	27.09%	27.40%

*For NexTracker installations static loading performance: front load measures 2400Pa, while back load measures 2400Pa.

Mechanical Characteristics

Cell Type	Mono perc, 166mm-half cells, 144(6x12+6x12)
Weight	27.5kg
Dimension	2096(±2mm) x 1040(±2mm) x 35(±1mm)
Superstructure	High Transmission, Low Iron & Semi-Tempered double Glass
Frame & Installation	Anodized aluminum profile
Junction box	300 mm in length or customized length
Connector	Compatible with MC4

Characteristics

Temperature Coefficient of Voc	-0.270%/°C
Temperature Coefficient of Isc	+0.048%/°C
Temperature Coefficient of Pmax	-0.350%/°C
Nominal Operating cell Temperature(NOCT)	45°C±2°C

Packing Information

Container	20' GP	40' HC
Pallets per Container	5	11
Pieces per Container	155	682

Maximum Ratings

Operating Temperature	-40°C~+85°
Maximum System Voltage	1500VDC (EU)
Maximum Series Fuse Rating	20A (EU)



Production factory : PT IDN SOLAR TECH

Premium cell, Premium Modules
Version No: NUSA_EN_20210208

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