

Mono Half-cut Module

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



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

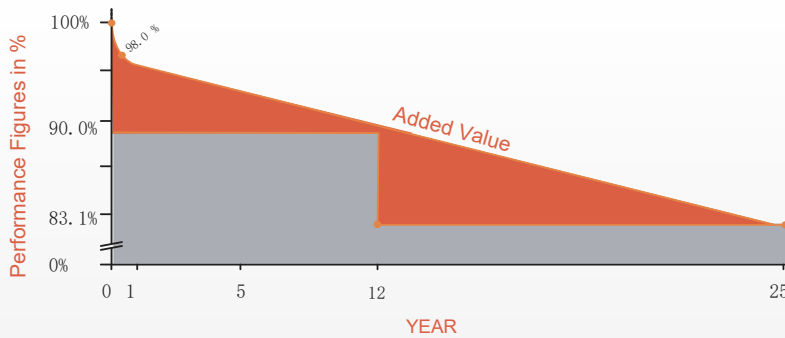
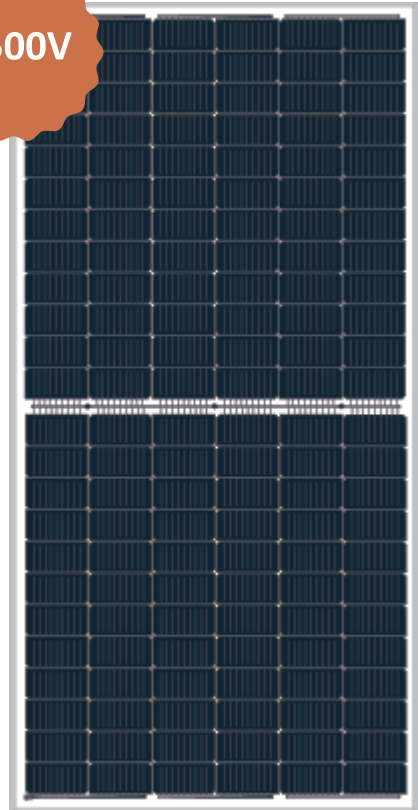


ISO9001, ISO14001, ISO45001



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

1500V



12-year
material & workmanship

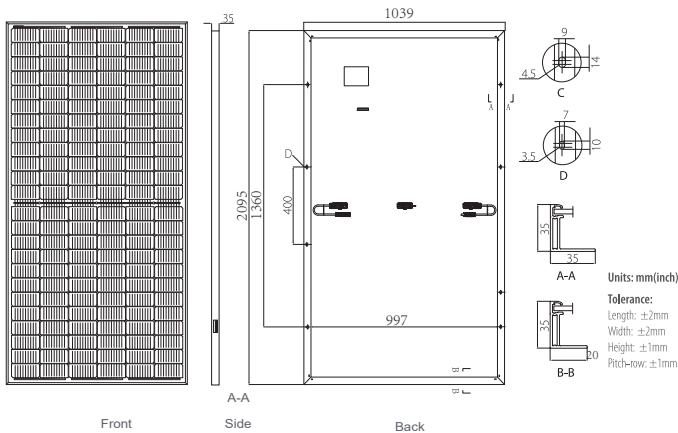
25-year
linear power output



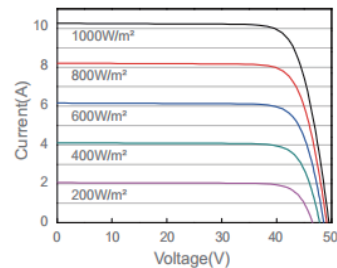
Mono Half-cell Module

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

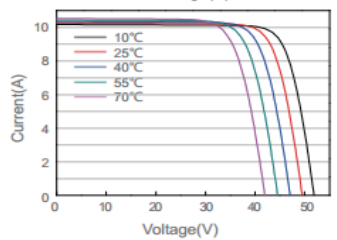
Dimension(mm)



I-V Curves



Current-Voltage Curve
NUSA144H-450M



Current-Voltage Curve
NUSA144H-450M

Electrical Characteristics	NUSA144H-435M	NUSA144H-440M	NUSA144H-445M	NUSA144H-450M	NUSA144H-455M
Maximum Power (Pmax)[W]	435	440	445	450	455
Maximum Power Voltage (Vmp)[V]	41.00	41.20	41.40	41.60	41.80
Maximum Power Current (Imp)[A]	10.61	10.68	10.75	10.82	10.89
Open Circuit Voltage (Voc)[V]	49.70	49.90	50.10	50.30	50.50
Short Circuit Current (Isc)[A]	11.16	11.23	11.29	11.36	11.42
Module Efficiency[%]	19.98	20.21	20.44	20.67	20.90
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.

Electrical Characteristics	NUSA144H-435M	NUSA144H-440M	NUSA144H-445M	NUSA144H-450M	NUSA144H-455M
Maximum Power (Pmax)[W]	328	332	336	340	343
Maximum Power Voltage (Vmp)[V]	37.60	37.80	38.00	38.20	38.40
Maximum Power Current (Imp)[A]	8.73	8.78	8.84	8.89	8.94
Open Circuit Voltage (Voc)[V]	45.50	45.80	46.00	46.20	46.30
Short Circuit Current (Isc)[A]	9.20	9.25	9.31	9.37	9.42
NOCT	Irradiance of 800W/m ² , AM1.5, Ambient Temperature 20°C, Wind Speed 1m/s.				

*For NexTracker installations static loading performance: front load measures 5400Pa, while back load measures 2400Pa.

Mechanical Characteristics

Cell Type	Mono perc, 166mm-half cells, 144(6x12+6x12)
Weight	23.5kg
Dimension	2095(±2mm) x 1039(±2mm) x 35 (±1mm)
Superstructure	High Transmission, Low Iron & Semi-Tempered Glass (3.2 mm)
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_20210321

www.idnsolar.com