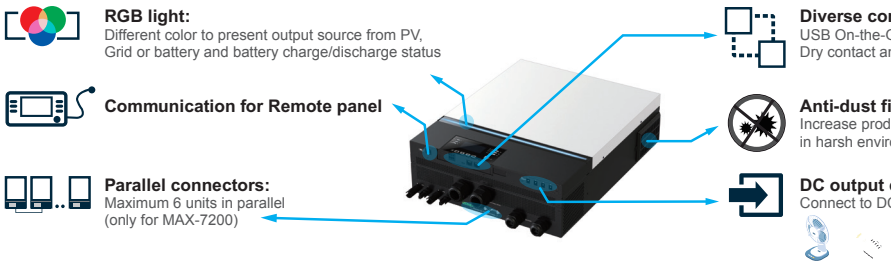
Axpert MAX Off-Grid Inverter

- Customizable status LED bar with RGB lights
- Built-in wifi for mobile monitoring (Android/iOS Apps are available)
- Supports USB On-the-Go function
- Reserved communication port for BMS (RS485, CAN-BUS or RS232)
- Replaceable fan design for ease of maintenance
- Battery independent design
- Configurable AC/PV output usage timer and prioritization
- Selectable high power charging current
- Selectable input voltage range for home appliances and personal computers
- Compatible to Utility Mains or generator input
- Built-in anti-dust kit
- Optional DC output for DC fan, LED bulb, router and so on
- Parallel operation up to 6 units only available for 7.2kVA



RGB light:
Different color to present output source from PV, Grid or battery and battery charge/discharge status

Communication for Remote panel

Parallel connectors:
Maximum 6 units in parallel (only for MAX-7200)

Diverse communications:
USB On-the-Go function, Dry contact and BMS communication

Anti-dust filter:
Increase product reliability in harsh environment

DC output connectors:
Connect to DC fan, LED bulb or router

Axpert MAX Off-Grid Inverter Selection Guide

MODEL	Axpert MAX 3600-24-230	Axpert MAX 3600-24-120	Axpert MAX 7200-48-230	Axpert MAX-7200-48-120
Rated Power	3600VA/3600W		7200VA/7200W*	
PARALLEL CAPABILITY	NO		Yes, up to 6 units	
INPUT				
Voltage	230 VAC	120 VAC	230 VAC	120 VAC
Selectable Voltage Range	170-280 VAC (For Personal Computers) 90-280 VAC (For Home Appliances)	90-140 VAC (For Personal Computers) 80-140 VAC (For Home Appliances)	170-280 VAC (For Personal Computers) 90-280 VAC (For Home Appliances)	90-140 VAC (For Personal Computers) 80-140 VAC (For Home Appliances)
Frequency Range	50 Hz/60 Hz (Auto sensing)			
OUTPUT				
AC Voltage Regulation (Batt. Mode)	230VAC ± 5%	120VAC ± 5%	230VAC ± 5%	120VAC ± 5%
Surge Power	7500VA	7500VA	15000VA	15000VA
Efficiency (Peak)	90% ~ 93%			
Transfer Time	15 ms (For Personal Computers) ; 20 ms (For Home Appliances)			
Waveform	Pure sine wave			
No Load Power Consumption	< 45W		< 70W	
BATTERY				
Battery Voltage	24 VDC		48 VDC	
Floating Charge Voltage	27 VDC		54 VDC	
Overcharge Protection	33 VDC		66 VDC	
SOLAR CHARGER & AC CHARGER				
Solar Charger Type	MPPT			
Maximum PV Array Power	4000 W		8000W (4000W x 2)	
MPPT Range @ Operating Voltage	120 ~ 450 VDC	90 ~ 230 VDC	90 ~ 450 VDC	90 ~ 230 VDC
Maximum PV Array Open Circuit Voltage	500 VDC	250 VDC	500 VDC	250 VDC
Maxmum Solar Charge Current	80 A			
Maximum AC Charge Current	80 A			
Maximum Charge Current	80 A			
PHYSICAL				
Dimension, D x W x H (mm)	147.4 x 432.5 x 553.6			
Net Weight (kgs)	14.1		18.4	
Communication Interface	USB/RS232/RS485/Wifi/Dry-contact			
OPERATING ENVIRONMENT				
Humidity	5% to 95% Relative Humidity(Non-condensing)			
Operating Temperature	-10°C to 50°C			
Storage Temperature	-15°C to 60°C			
STANDARD				
Compliance Safety	CE	UL	CE	UL

* 120 VAC model rated as 5000VA when unit operated under inverte mode
Product specifications are subject to change without further notice.

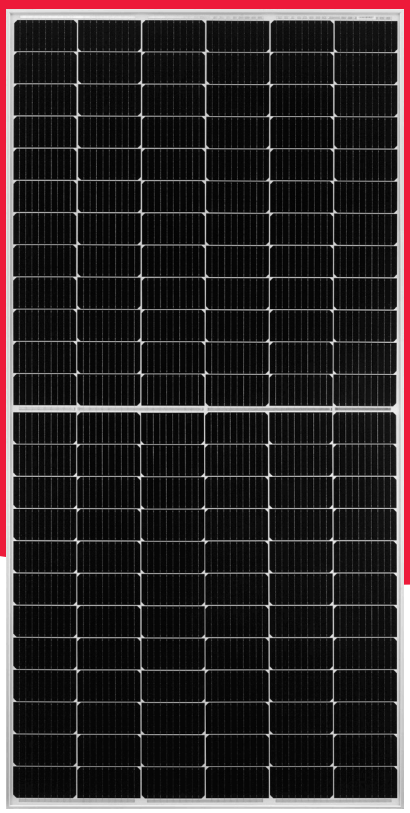
Voltronic Power
Advancing Power

NU-JD Series

NU-JD440

440 W

The Project Solution



Powerful product features

0/+5 % Guaranteed positive power tolerance (0/+5 %)

IN OUT High module efficiency 19.9 %
PERC monocrystalline silicon photovoltaic modules

Max. system voltage 1,500 V
Lower BOS costs by longer strings

9BB 9 busbar technology
Improved reliability
Higher efficiency
Reduced series resistance

Half-cut cell
Improved shading performance
Lower internal losses
Reduced hot spot risk

Tested and certified
VDE, IEC/EN61215, IEC/EN61730
Safety class II, CE
Fire rating class C

Robust product design
PID resistance test passed
Salt mist test passed (IEC61701)
Ammonia test passed (IEC62716)
Dust and sand test passed (IEC60068)

Your solar partner for life

60 years of solar expertise

25 YEARS Linear power output guarantee

15* YEARS Product guarantee

Local support team in Europe

50 MIO 50 million PV modules installed

TIER 1 Tier 1 - BloombergNEF

Energy Solutions

SHARP
Be Original.

* Applicable for modules installed within the EU and additional listed countries.
Please check the guarantee conditions for your area before purchasing.

Electrical data (STC)

		NU-JD440	
Maximum power	P_{max}	440	W_p
Open-circuit voltage	V_{oc}	49.77	V
Short-circuit current	I_{sc}	11.49	A
Voltage at point of maximum power	V_{mpp}	41.20	V
Current at point of maximum power	I_{mpp}	10.68	A
Module efficiency	η_m	19.9	%

STC = Standard Test Conditions: irradiance 1,000 W/m², AM 1.5, cell temperature 25 °C.
Rated electrical characteristics are within ±10 % of the indicated values of I_{SC}, V_{OC} and 0 to +5 % of P_{max} (power measurement tolerance ±3 %).
Reduction of efficiency from an irradiance change of 1,000 W/m² to 200 W/m² (T_{module} = 25 °C) is less than 3 %.

Electrical data (NMOT)

		NU-JD440	
Maximum power	P_{max}	329.14	W_p
Open-circuit voltage	V_{oc}	46.07	V
Short-circuit current	I_{sc}	9.21	A
Voltage at point of maximum power	V_{mpp}	36.98	V
Current at point of maximum power	I_{mpp}	8.90	A

NMOT = Nominal Module Operating Temperature: 45 °C, irradiance 800 W/m², air temperature of 20 °C, wind speed of 1 m/s.

Mechanical data

Length	2,108 mm
Width	1,048 mm
Depth	40 mm
Weight	25.5 kg

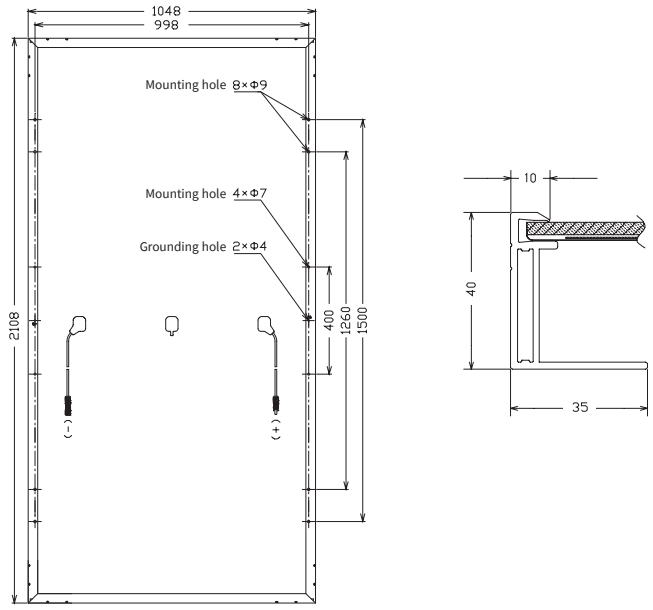
Temperature coefficient

P_{max}	-0.347 %/°C
V_{oc}	-0.263 %/°C
I_{sc}	0.057 %/°C

Limit values

Maximum system voltage	1,500 V DC
Over-current protection	20 A
Temperature range	-40 to 85 °C
Max. mechanical load (snow/wind)	2,400 Pa
Tested snow load (IEC61215 test pass*)	5,400 Pa

Dimensions (mm)



*Please refer to SHARP's installation manual for details.

Packaging data

Modules per pallet	27 pcs
Pallet size (L × W × H)	2,16 m x 1,13 m x 1,24 m
Pallet weight	Approx. 736 kg

General data

Cells	Half-cut cell mono, 166 mm x 83 mm, 9BB, 2 strings of 72 cells in series
Front glass	Anti-reflective high transmissive low iron tempered glass, 3.2 mm
Frame	Anodized aluminium alloy, silver
Backsheet	White
Cable	ø 4.0 mm², length 1,670 mm [or on request (+) 365 mm, (-) 50 mm]
Connection box	IP68 rating, 3 bypass diodes
Connector	C1, IP68

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