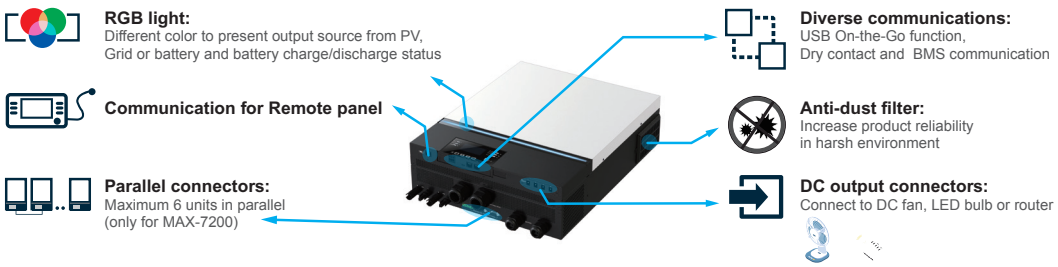
Axpert MAX Off-Grid Inverter

- 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



Axpert MAX Off-Grid Inverter Selection Guide

MODEL	Axpert MAX 3600-24-230	Axpert MAX 7200-48-230
Rated Power	3600VA/3600W	7200VA/7200W*
PARALLEL CAPABILITY	NO	Yes, up to 6 units
INPUT		
Voltage	230 VAC	230 VAC
Selectable Voltage Range	170-280 VAC (For Personal Computers) 90-280 VAC (For Home Appliances)	170-280 VAC (For Personal Computers) 90-280 VAC (For Home Appliances)
Frequency Range	50 Hz/60 Hz (Auto sensing)	
OUTPUT		
AC Voltage Regulation (Batt. Mode)	230VAC ± 5%	230VAC ± 5%
Surge Power	7500VA	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 ~ 450 VDC
Maximum PV Array Open Circuit Voltage	500 VDC	500 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	CE

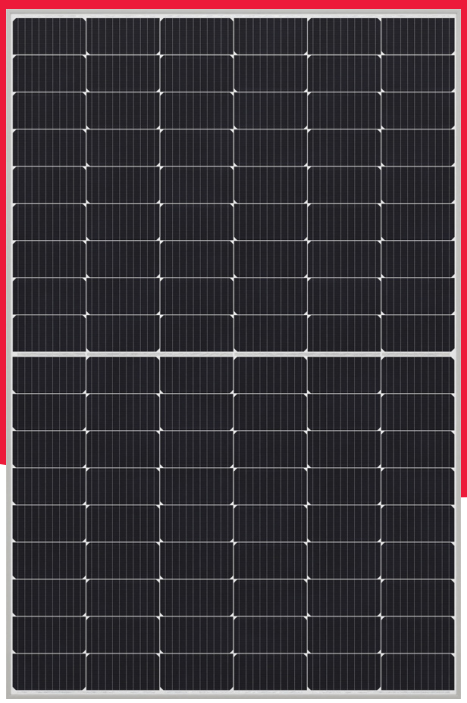
Product specifications are subject to change without further notice.

NU-JC Series

NU-JC415

415 W

The High Performer



Powerful product features

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

MBB MBB busbar technology
Improved reliability
Higher efficiency
Reduced series resistance

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

High module efficiency 21.25 %
PERC monocrystalline silicon photovoltaic modules

Half-cut cell
Improved shading performance
Lower internal losses

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 60 years of solar expertise

25 YEARS Linear power output guarantee

10* YEARS Product guarantee

Local support team in Europe

50 MIL 50 million PV modules installed

1 TIER Tier 1 - BloombergNEF

Energy Solutions

SHARP
Be Original.

* Applicable for modules installed in countries as shown in the guarantee conditions.

Electrical data (STC)

		NU-JC415	
Maximum power	P_{max}	415	W_p
Open-circuit voltage	V_{oc}	38.08	V
Short-circuit current	I_{sc}	13.87	A
Voltage at point of maximum power	V_{mpp}	31.49	V
Current at point of maximum power	I_{mpp}	13.18	A
Module efficiency	η_m	21.25	%

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}.
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-JC415	
Maximum power	P_{max}	311.11	W_p
Open-circuit voltage	V_{oc}	36.09	V
Short-circuit current	I_{sc}	11.25	A
Voltage at point of maximum power	V_{mpp}	29.35	V
Current at point of maximum power	I_{mpp}	10.6	A

NMOT = Nominal Module Operating Temperature: 42.5 °C, irradiance 800 W/m², air temperature of 20 °C, wind speed of 1 m/s.

Mechanical data

Length	1,722 mm
Width	1,134 mm
Depth	30 mm
Weight	20.7 kg

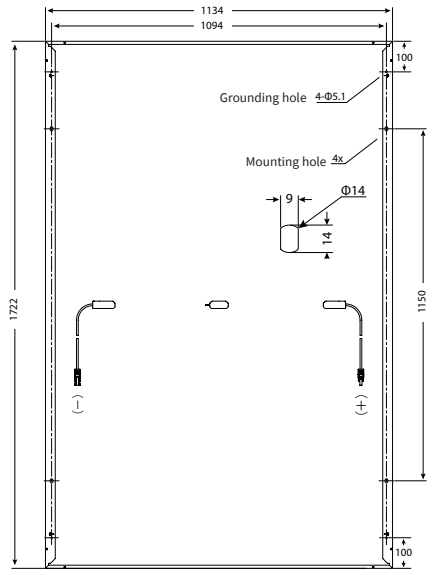
Temperature coefficient

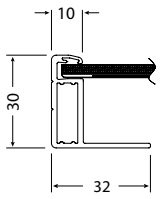
P_{max}	-0.341 %/°C
V_{oc}	-0.262 %/°C
I_{sc}	0.054 %/°C

Limit values

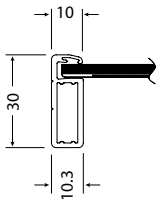
Maximum system voltage	1,000 V DC
Over-current protection	25 A
Temperature range	-40 to 85 °C
Max. mechanical load (snow/wind)	2,400 Pa
Tested snow load (IEC61215 test pass*)	5,400 Pa

Dimensions (mm)





Frame long side cross section



Frame short side cross section

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

Packaging data

Modules per pallet	36 pcs
Pallet size (L × W × H)	1.75 m x 1.13 m x 1.25 m
Pallet weight	Approx. 780 kg

General data

Cells	Half-cut cell mono, 182 mm x 91 mm, MBB, 2 strings of 54 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 1,250 mm
Connection box	IP68 rating, 3 bypass diodes
Connector	MC4 (Multi Contact, Stäubli), IP68

NUJC415I0EN822

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SHARP
Be Original.

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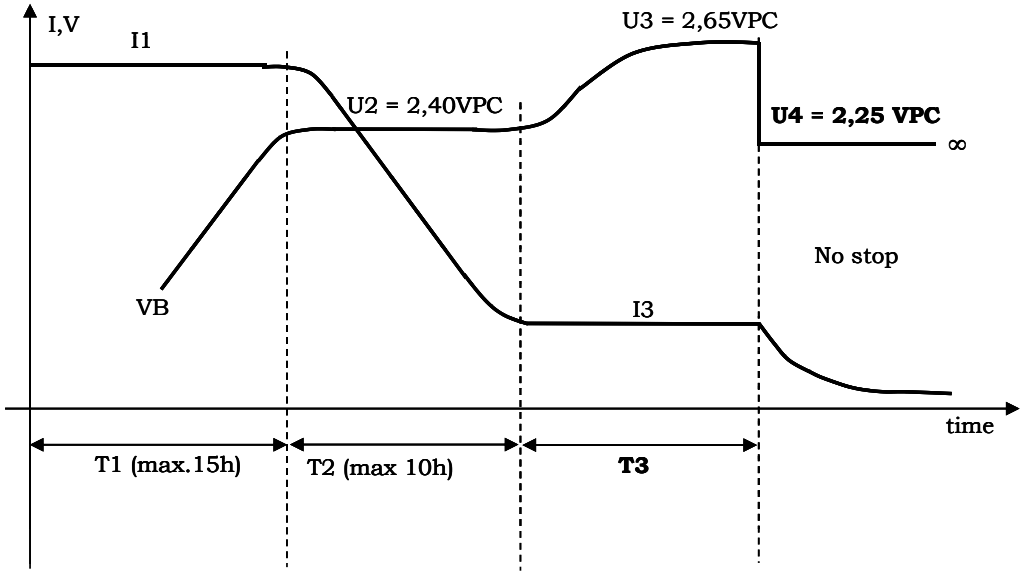
AZIENDA CON SISTEMA QUALITÀ CERTIFICATO DA DNV
=UNI EN ISO 9001/2000=

LONG LIFE BATTERIES HIGH CAPACITY

SPECIFICHE DELLA BATTERIA TIPO 7 TG 12 N

Performance specification for battery type

Voltaggio *Nominal Voltage*	.....	12 V
Capacità *Nominal Capacity*	.....	20 h ⇒ 200 Ah 5 h ⇒ 150 Ah 2 h ⇒ 117 Ah 1 h ⇒
Resistenza interna *Internal Resistance*	.....	milliohms
Dimensioni (mm) *Dimensions (mm)*	.....	Lunghezza 510 mm; Larghezza 222 mm; Altezza 225 mm *Lenght 510 mm* *Width 222 mm* *Height 225 mm*
Poli *Terminals*	.....	+ \ -
Elettrolito *Electrolyte*	.....	Acido Solforico 1,29 gr/lt 30°C *Sulphuric acid*
Contenitore *Recipient*	.....	Polipropilene (PP) *Polypropylene (PP)*
Peso con elettrolito *Weight with electrolyte*	.....	51,4 Kg.
Corrente di carica suggerita *Suggested Charging current*	.....	25 A WA 20 IUIA
Temperatura di lavoro *Operating Temperature*	.....	-20°C / 45°C
Temperatura d'immagazzinaggio *Storage Temperature*	.....	-20°C / 40°C
Numero Cicli *Cycle nr.*	.....	1200



➢ **Durata: T1 + T2:** la durata delle due fasi iniziali può essere al massimo 14h

- **Durata: T3**

La durata di T3 è uguale alla durata della carica principale, cioè T3 = T1 + T2, ma con un minimo di 1h e

T1+T2 [h]	< 1	2	3	4	> 4
T3 [h]	1	2	3	4	4

massimo di 4h: