

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



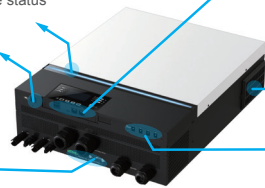
RGB light:
Different color to present output source from PV, Grid or battery and battery charge/discharge status



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



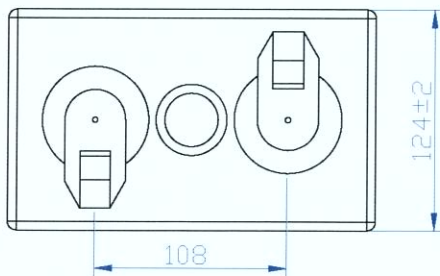
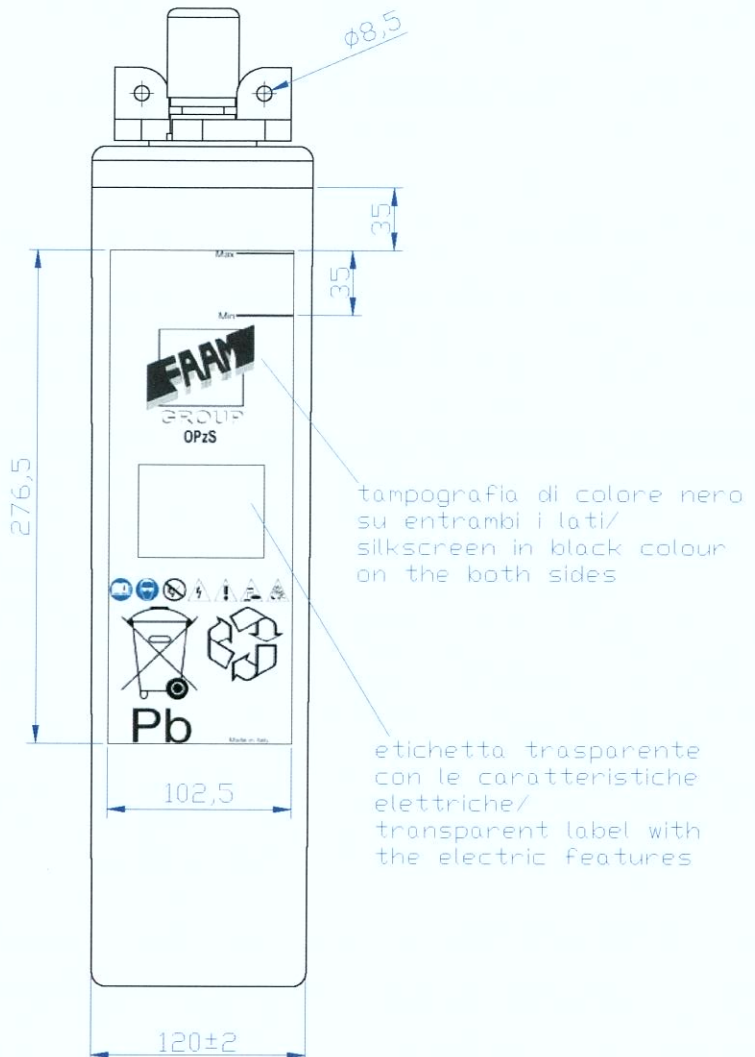
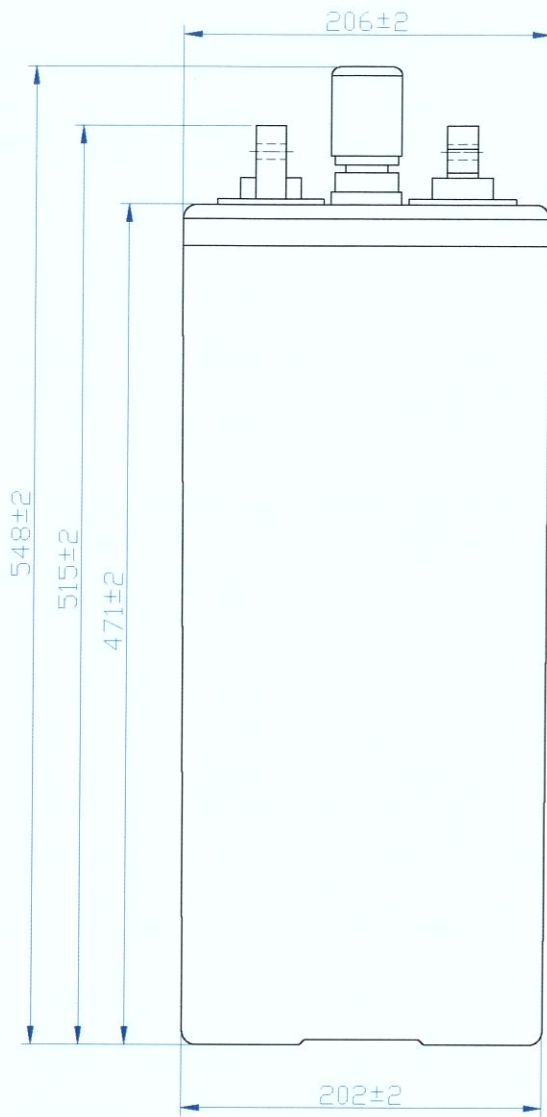
DC output connectors:
Connect to DC fan, LED bulb or router



Axpert MAX Off-Grid Inverter Selection Guide

MODEL	Axpert MAX 3600-24-230	Axpert MAX 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
Maximum 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.



CODICE 5STA70 / CODE 5STA70:
 VOLTAGGIO / VOLTAGE : 2 V
 CAPACITA' / CAPACITY (10 h) : 350 Ah
 PESO / WEIGHT : 32,5±5% Kg

1	14.02.2011	R. PARENTI	S. BALDASSARRI	R. ISIDORI	INSERITA TAMPDGRAFIA/ADDED PRINTING		
REV.	DATA/DATE	PROGETTISTA/DESIGNER	DISEGNATO/DRAWN	APPROVATO/APPROVED	DESCRIZIONE MODIFICHE/DESCRIPTION REVISIONS		
INDICAZIONI GENERALI/GENERAL INDICATIONS			MATERIALE/MATERIAL:	R (N/m ²)	DUREZZA/HARDNESS:	PROGETTISTA/DESIGNER:	
GRADO DI PRECISIONE/DEGREE OF ACCURACY			Pb-acide			R. PARENTI	
NORMA UNI 5307/STANDARD UNI 5307			PROGETTO GENERALE-COMPLESSIVO/GENERAL PLAN-TOTAL PLAN:			DISEGNATO/DRAWN:	
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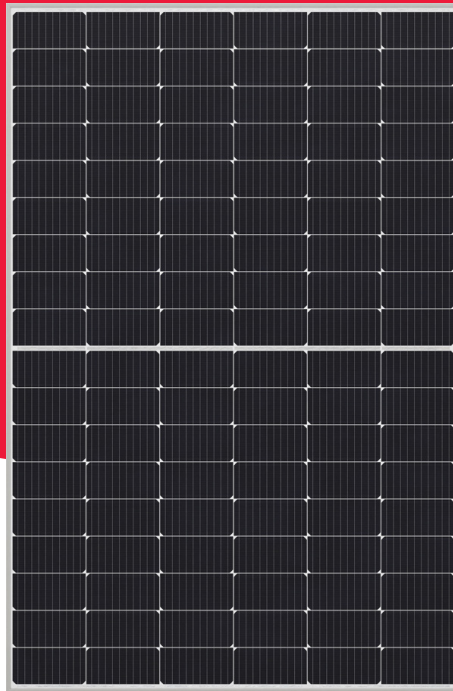
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NU-JC Series

NU-JC415


415 W

The High Performer





Powerful product features


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

 High module efficiency 21.25 %
PERC monocrystalline silicon photovoltaic modules

MBB MBB busbar technology
Improved reliability
Higher efficiency
Reduced series resistance

 Half-cut cell
Improved shading performance
Lower internal losses

 Tested and certified
VDE, IEC/EN61215, IEC/EN61730
CE Safety class II, CE
UKCA 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 60 years of solar expertise
YEARS

 Local support team in Europe

25 Linear power output guarantee
YEARS

50 50 million PV modules installed
MIL

10* Product guarantee
YEARS

1 Tier 1 - BloombergNEF
TIER



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

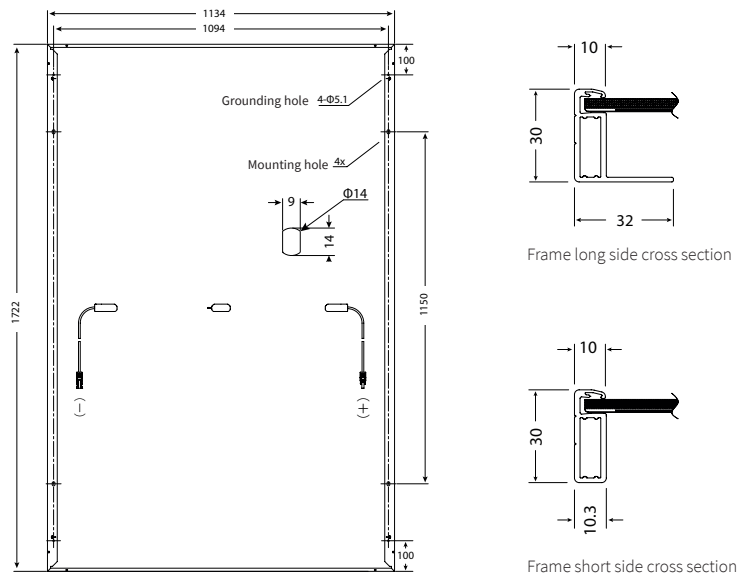
Limit values

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

Packaging data

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

Dimensions (mm)



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

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	∅ 4.0 mm ² , length 1,250 mm
Connection box	IP68 rating, 3 bypass diodes
Connector	MC4 (Multi Contact, Stäubli), IP68

Note: Technical data is subject to change without prior notice. Before using SHARP products, please request the latest data sheets from SHARP. SHARP accepts no responsibility for damage to devices which have been equipped with SHARP products on the basis of unverified information. The specifications may deviate slightly and are not guaranteed. Installation and operating instructions are to be found in the corresponding handbooks, or can be downloaded from www.sharp.eu. This module should not be directly connected to a load.