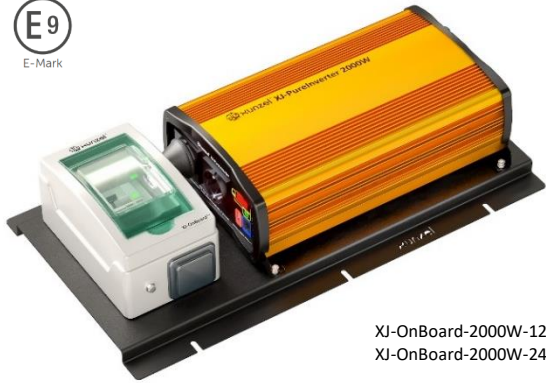


# XJ-OnBoard™ Series – Safe Ready to Go Advanced Pure Sinewave Inverters Systems



XJ-OnBoard-2000W-12V  
XJ-OnBoard-2000W-24V

With residual current breaker with overcurrent protection (RCBO). Ensures work place safety.

## XJ-OnBoard™ Series – XUNZEL

Complete Plug-In System with total protection. Includes **Residual Current Breaker with Overcurrent protection (RCBO)**. Ensures work place safety. State of the art, easy to use design, XJ and XJTS inverters will offer you reliable service for providing AC power and 5V USB power from battery. These Inverter Packages are great for Professional Vehicles such as Telecommunications, Energy, Council, Emergency Vehicles and let's not forget Recreation Vehicles like Caravans, Motorhomes, Camper Trailers and Marine applications. True sine wave output. Ideal for operating motor loads, fine electronics and reduce stress on surge protections circuitry, meaning potentially longer equipment life.

### Product features

- Pure sine wave (**True Sine Wave**) AC output, with very low Total Harmonic Distortion (THD). Ensure the correct functioning of sensitive devices.
- Converts battery power to AC power anywhere with high efficiency.
- Very low self-consumption. **Power Save Mode**. Get the maximum energy of your batteries. Designed for "always-on". High efficiency cooling design.
- **Silent Operation**. Lightweight and robust. Anodized Aluminium case.
- High surge capacity (2 x constant).
- With digital display and/or LED monitoring for easy and quick status reading and programming.
- Low battery alarm and shutdown protection to prevent the battery from too deep discharges. Extend the life of your batteries.
- Audio alarm and warning codes for easy diagnosis. Automatic shutdown protections integrated: overtemperature, short-circuit, overload and low/high battery conditions.
- Easy to install and use. Mounting brackets for permanent installation.
- Safe and reliable.
- **USB 5V-2100mA** "always-ON" output to feed and charge electronic devices.
- Isolation between DC input and AC output for safety.
- **Heavy duty DC input terminals** for direct, simple and secure battery connection.
- Preferred choice for powering off-grid, off-shore, onboard and back-up electronics, sensitive loads and demanding motor loads, including digital clocks, dimmers, variable speed motors, battery chargers, and telecom/audio/visual equipment.
- International output sockets available (available per country) on demand.
- **E-mark approved**
- **Full range of optional accessories available:**
  - Battery Cable Connection Kits and In-Line Fuse & Holder
  - Remote Control ON/OFF with 6-meter cable (code: **RCXJ**)
  - Automatic-Start-XJ (code: **ASXJ**)
  - Smart-Start™-XJ: 3-positions ON/OFF/Remote Signal (code: **SM2XJ**)

### Available Models

- **XJ-OnBoard-400W-12V-Handy**
- **XJ-OnBoard-600W-12V**
- **XJ-OnBoard-1000W-12V**
- **XJ-OnBoard-2000W-12V**
- **XJ-OnBoard-500W-24V**
- **XJ-OnBoard-1000W-24V**
- **XJ-OnBoard-2000W-24V**

400W / 12VDC / 230VAC 50Hz  
600W / 12VDC / 230VAC 50Hz + USB 5VDC 2.1A  
1000W / 12VDC / 230VAC 50Hz + USB 5VDC 2.1A  
2000W / 12VDC / 2x 230VAC 50Hz + USB 5VDC 2.1A  
500W / 24VDC / 230VAC 50Hz + USB 5VDC 2.1A  
1000W / 24VDC / 230VAC 50Hz + USB 5VDC 2.1A  
2000W / 24VDC / 2x 230VAC 50Hz + USB 5VDC 2.1A

Models with Transfer-Switch:

- **XJTS-OnBoard-3000W-12V**
- **XJTS-OnBoard-3000W-24V**

3000W / 12VDC / 230VAC 50Hz + USB 5VDC 2.1A  
3000W / 24VDC / 230VAC 50Hz + USB 5VDC 2.1A

Models with Inverter-Charger:

- **XJC-OnBoard-1000W-12V-40A**
- **XJC-OnBoard-2000W-12V-55A**

1000W / 12VDC / 230VAC 50Hz + USB 5VDC 2.1A w/Charger 40A  
2000W / 12VDC / 230VAC 50Hz + USB 5VDC 2.1A w/Charger 55A



XJ-OnBoard-600W-12V

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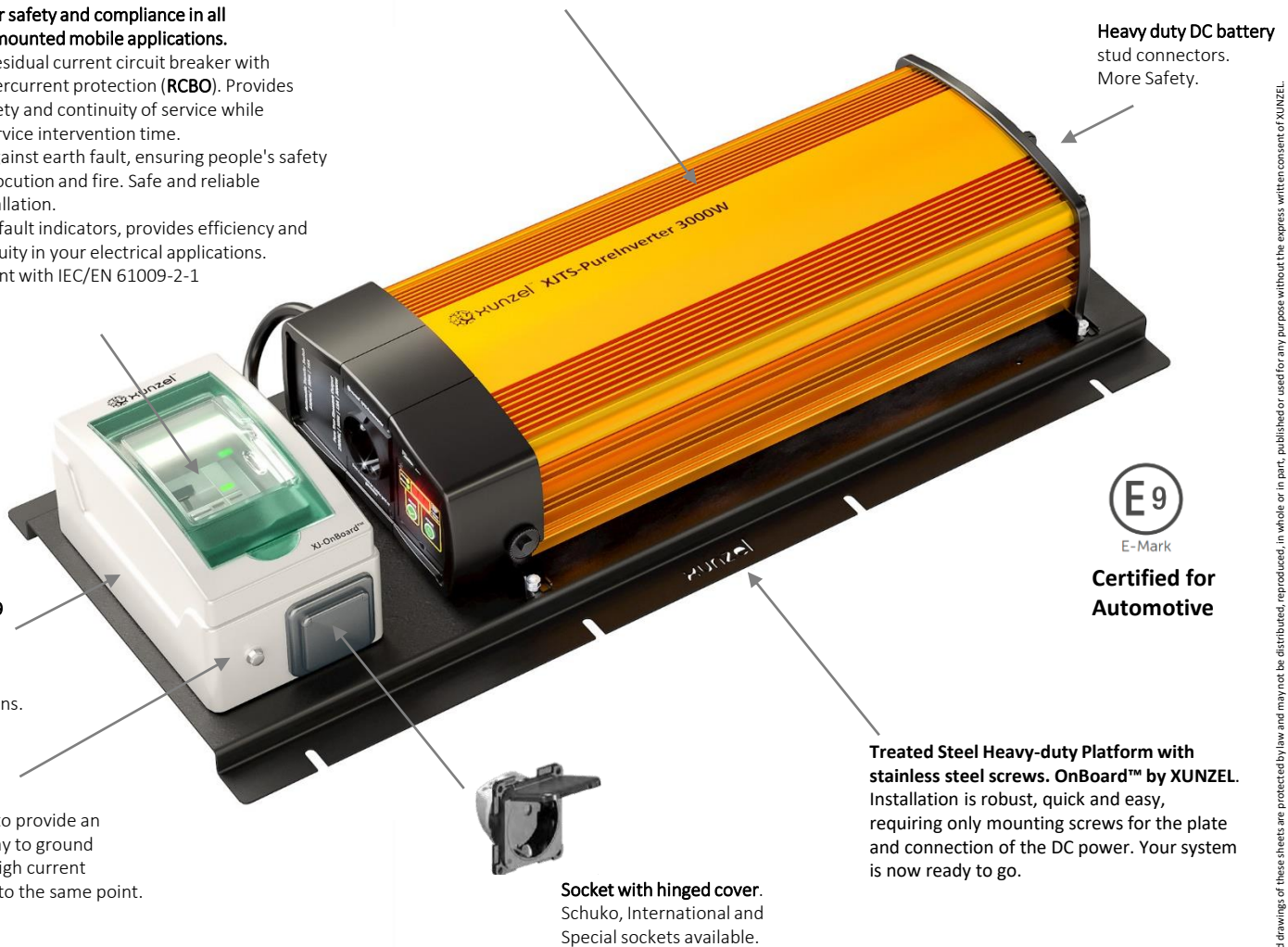


# XJ-OnBoard™ Series – Safe Ready to Go Advanced Pure Sinewave Inverters Systems

## Product features

- **Maintenance Free True Sine Wave Output** is ideal for operating motor loads, and to reduce stress on surge protection circuitry, meaning potentially longer equipment life.
- Audio alarm with warning/error codes to alert user to check inverter condition before unit shutdown.
- Automatic shutdown protects overload, over temperature and low/high battery conditions.
- High surge capacity for products that require more power to start (2 x constant).
- High efficiency conversion of battery available power to AC power.

- **Protection for safety and compliance in all permanently mounted mobile applications.**
- Integrated Residual current circuit breaker with integrated overcurrent protection (**RCBO**). Provides maximum safety and continuity of service while minimizing service intervention time.
- Protection against earth fault, ensuring people's safety against electrocution and fire. Safe and reliable electrical installation.
- With local default indicators, provides efficiency and service continuity in your electrical applications.
- Fully compliant with IEC/EN 61009-2-1



Heavy duty DC battery stud connectors. More Safety.



Certified for Automotive

IP65 and IK09 enclosure for providing protection to control buttons.

Ground lug to provide an excellent way to ground numerous high current accessories to the same point.

Socket with hinged cover. Schuko, International and Special sockets available.

Treated Steel Heavy-duty Platform with stainless steel screws. OnBoard™ by XUNZEL. Installation is robust, quick and easy, requiring only mounting screws for the plate and connection of the DC power. Your system is now ready to go.

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# XJ-OnBoard™ Series – Safe Ready to Go Advanced Pure Sinewave Inverters Systems

## Models

**XJ-OnBoard-400W-12V-HANDY**  
P|N: XJOB40012



**XJ-OnBoard-500W-24V**  
P|N: XJOB50024



**XJ-OnBoard-600W-12V**  
P|N: XJOB60012



**XJ-OnBoard-1000W-12V**  
P|N: XJOB100012

**XJ-OnBoard-1000W-24V**  
P|N: XJOB100024



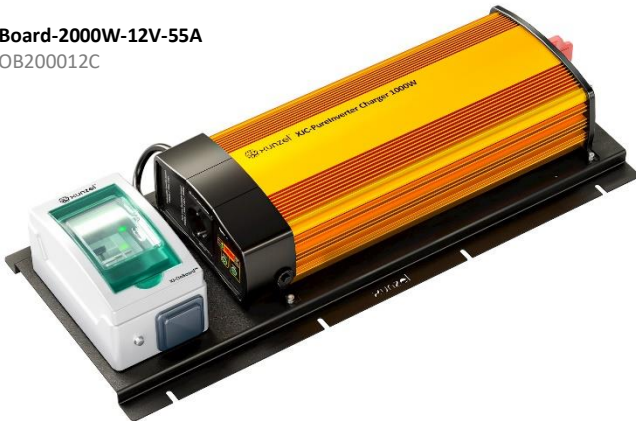
**XJ-OnBoard-2000W-12V**  
P|N: XJOB200012

**XJ-OnBoard-2000W-24V**  
P|N: XJOB200024



**XJC-OnBoard-1000W-12V-40A**  
P|N: XJOB100012C

**XJC-OnBoard-2000W-12V-55A**  
P|N: XJOB200012C



**XJTS-OnBoard-3000W-12V**  
P|N: XJOB300012

**XJTS-OnBoard-3000W-24V**  
P|N: XJOB300024



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# XJ-OnBoard™ Series – Safe Ready to Go Advanced Pure Sinewave Inverters Systems

## Technical Specifications

MODEL	XJ-OnBoard-400W-12V-HANDY	XJ-OnBoard-600W-12V	XJ-OnBoard-1000W-12V	XJ-OnBoard-2000W-12V	XJ-OnBoard-500W-24V	XJ-OnBoard-1000W-24V	OnBoard-XJ-2000W-24V
XUNZEL Code	XJOB40012	XJOB60012	XJOB100012	XJOB200012	XJOB50024	XJOB100024	XJOB200024
<b>INVERTER</b>							
AC Output Power Nominal / Peak	400/800W	600/1200	1000/2000W	2000/4000W	500/1000W	1000/2000W	2000/4000W
AC Output Current	1.74A <sub>AC</sub>	2.60A <sub>AC</sub>	4.35A <sub>AC</sub>	8.70A <sub>AC</sub>	2.17A <sub>AC</sub>	4.35A <sub>AC</sub>	8.70A <sub>AC</sub>
AC Output Voltage / Frequency	230V <sub>AC</sub> / 50Hz						
AC Output Waveform	Real Pure Sinewave Output (THD<3%)						
Peak Efficiency	> 95%						
Nominal DC Input Voltage	12.50V <sub>DC</sub>				25.00V <sub>DC</sub>		
DC Input Operation Range	10.5 - 15.5V <sub>DC</sub>				21.0 – 31.0V <sub>DC</sub>		
Power Saving Mode	N/A	YES					
No Load Current with Power Save Mode OFF/ON	<0.80A <sub>DC</sub>	<0.80/0.20A <sub>DC</sub>	<1.50/0.17A <sub>DC</sub>		<0.50/0.10A <sub>DC</sub>	<0.60/0.10A <sub>DC</sub>	
Under Voltage Shutdown	10.50V <sub>DC</sub>				21.00V <sub>DC</sub>		
Under Voltage Recovery	12.00V <sub>DC</sub>				23.60V <sub>DC</sub>		
Over Voltage Shutdown	15.90V <sub>DC</sub>		15.75V <sub>DC</sub>		31V <sub>DC</sub>		
AC Output Port	1x EU schuko socket			2x EU schuko socket	1x EU schuko socket		2x EU schuko socket
Power Save Mode OFF/ON Load Sense Threshold	N/A	≤5W / ≥10W	≤3W / ≥10W		≤5W / ≥10W	≤3W / ≥10W	
USB port	N/A	5V <sub>DC</sub> -2100mA <sub>DC</sub>					
Battery Minimum Capacity	> 78Ah-12V	> 120Ah-12V	> 240Ah-12V	> 480Ah-12V	> 78Ah-24V	> 120Ah-24V	> 240Ah-24V
Display	LED indicators		LCD display + LED indicators		LED indicators	LCD display + LED indicators	
<b>SAFETY AND ENVIRONMENTAL</b>							
Conformance	CE   UKCA   RoHS3 and REACH Compliant   WEEE Compliant   EMC, LVD   E-Mark						
Operating Temperature	0°C -> +40°C (+32°F -> +104°F)						
Storage Temperature	-20°C -> +60°C (-4°F -> +140°F)						
Relative Humidity	5-90%						
Operating Altitude	<3000m						
<b>WEIGHT AND DIMENSIONS</b>							
Weight	2.5kg	3.5kg	4.6kg	6.90kg	3.2kg	4.6kg	6.90kg
Dimensions	390x270x139mm	390x270x139mm	490x270x139mm	560x240x139mm	390x270x139mm	490x270x139 mm	560x240x139mm
Inverter Case Material	High Impact Resistance ABS	High Resistance Anodized Aluminium					

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www.xunzel.com

# XJ-OnBoard™ Series – Safe Ready to Go Advanced Pure Sinewave Inverters Systems

## Technical Specifications

MODEL	XJTS-OnBoard-3000W-12V	XJTS-OnBoard-3000W-24V	XJC-OnBoard-1000W-12V-40A	XJC-OnBoard-2000W-12V-55A
XUNZEL Code	XJOB300012	XJOB300024	XJOB100012C	XJOB200012C
<b>INVERTER</b>				
AC Output Power Nominal / Peak	3000/6000W		1000/2000W	2000/4000W
AC Output Current	13.0A <sub>AC</sub>		4.35A <sub>AC</sub>	8.70A <sub>AC</sub>
AC Output Voltage / Frequency	230V <sub>AC</sub> / 50Hz			
AC Output Waveform	Pure Sinewave (THD<3%)			
Peak Efficiency	>92%			
Nominal DC Input Voltage	12.50V <sub>DC</sub>	25.00V <sub>DC</sub>	12.50V <sub>DC</sub>	12.50V <sub>DC</sub>
DC Input Operation Range	10.5 - 15.5V <sub>DC</sub>	21.0 – 31.0V <sub>DC</sub>	10.5 - 15.5V <sub>DC</sub>	10.5 - 15.5V <sub>DC</sub>
Power Saving Mode	Yes			
No Load Current with Power Save Mode OFF/ON	<1.50/0.17A <sub>DC</sub>		<0.60/0.10A <sub>DC</sub>	
Under Voltage Shutdown	10.50V <sub>DC</sub> (Programable to 11.80V <sub>DC</sub> for Start Battery Car)	21.00V <sub>DC</sub> (Programable to 23.60V <sub>DC</sub> for Start Battery Car)	10.50V <sub>DC</sub> (Programable to 11.80V <sub>DC</sub> for Start Battery Car)	
Under Voltage Recovery	12.00V <sub>DC</sub> (Programable to 12.60V <sub>DC</sub> for Start Battery Car)	23.60V <sub>DC</sub> (Programable to 25.20V <sub>DC</sub> for Start Battery Car)	12.00V <sub>DC</sub> (Programable to 12.60V <sub>DC</sub> for Start Battery Car)	
Over Voltage Shutdown	15.50V <sub>DC</sub>	31.00V <sub>DC</sub>	15.50V <sub>DC</sub>	
AC Output Ports	1x EU schuko socket + 1x Hardwire			
Power Save Mode OFF/ON Load Sense Threshold	≤3W / ≥10W			
USB port	5V <sub>DC</sub> - 2100mA <sub>DC</sub>			
AC Transfer Switch	Transfer Time < 30ms   Transfer Relay Rating 16A			
Battery Minimum Capacity	> 960Ah - 12V	> 480Ah - 24V	> 240Ah - 12V	> 480Ah - 12V
Display	LCD display + LED indicators			
Charger	N.A.		40A (GEL, AGM, LITHIUM, CALCIUM, PROGRAMABLE, POWER SUPPLY)	55A (GEL, AGM, LITHIUM, CALCIUM, PROGRAMABLE, POWER SUPPLY)
<b>SAFETY AND ENVIRONMENTAL</b>				
Conformance	CE   UKCA   RoHS3 and REACH Compliant   WEEE Compliant   EMC, LVD   E-Mark			
Operating Temperature	0°C -> +40°C (+32°F -> +104°F)			
Storage Temperature	-20°C -> +60°C (-4°F -> +140°F)			
Relative Humidity	5-90%			
Operating Altitude	<3000m			
<b>WEIGHT AND DIMENSIONS</b>				
Weight	9.20kg		5.70kg	6.60kg
Dimensions	710x300x139mm		478x230x114mm	
Inverter Case Material	High Resistance Anodized Aluminium			

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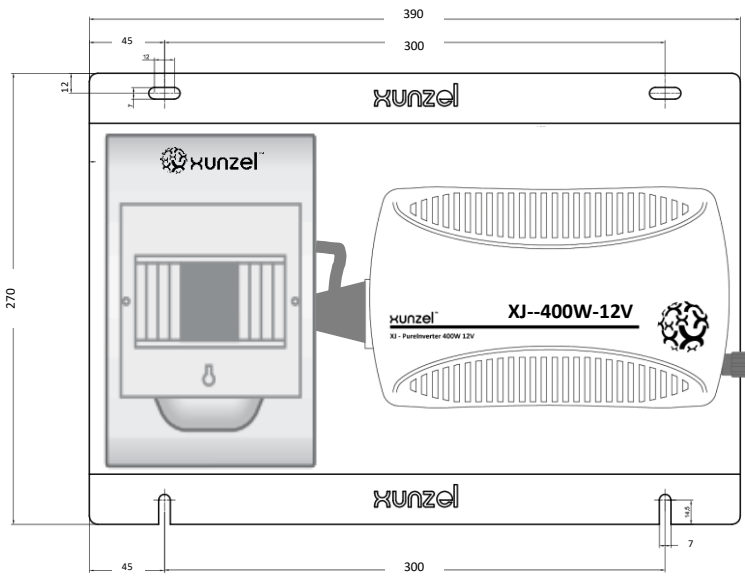


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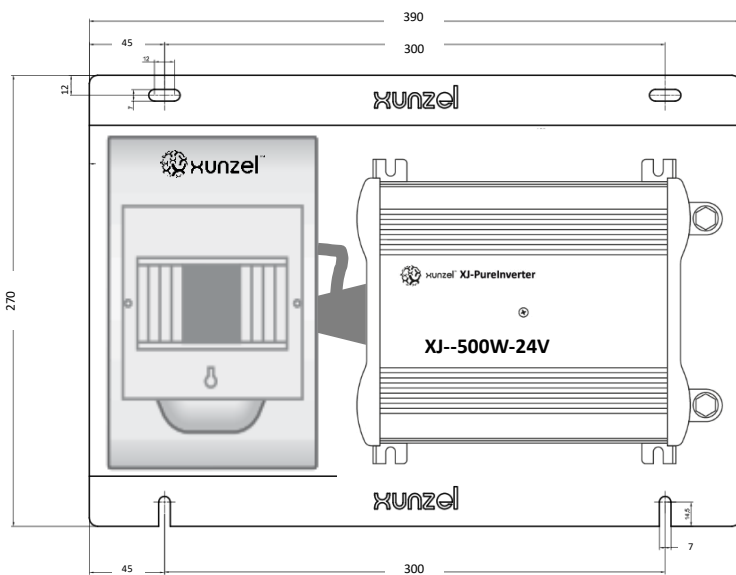
# XJ-OnBoard™ Series – Safe Ready to Go Advanced Pure Sinewave Inverters Systems

## Technical Drawings

**XJ-OnBoard-400W-12V-HANDY**  
P|N: XJOB40012



**XJ-OnBoard-500W-24V**  
P|N: XJOB50024



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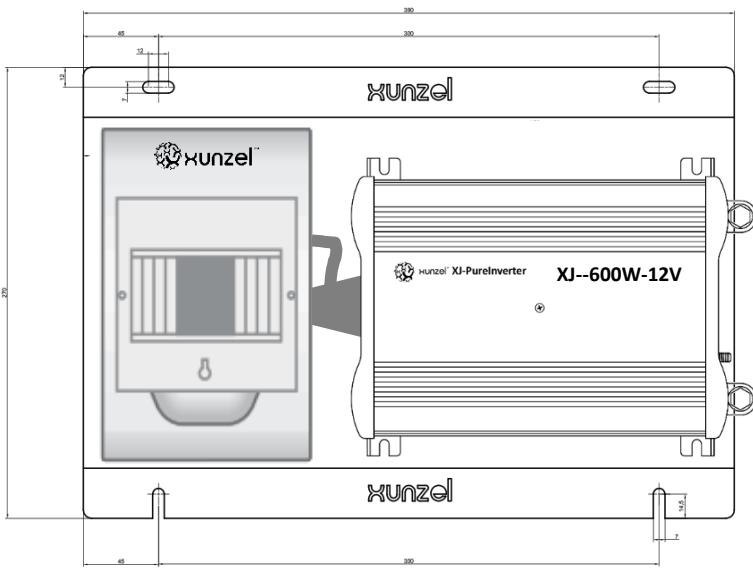
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# XJ-OnBoard™ Series – Safe Ready to Go Advanced Pure Sinewave Inverters Systems

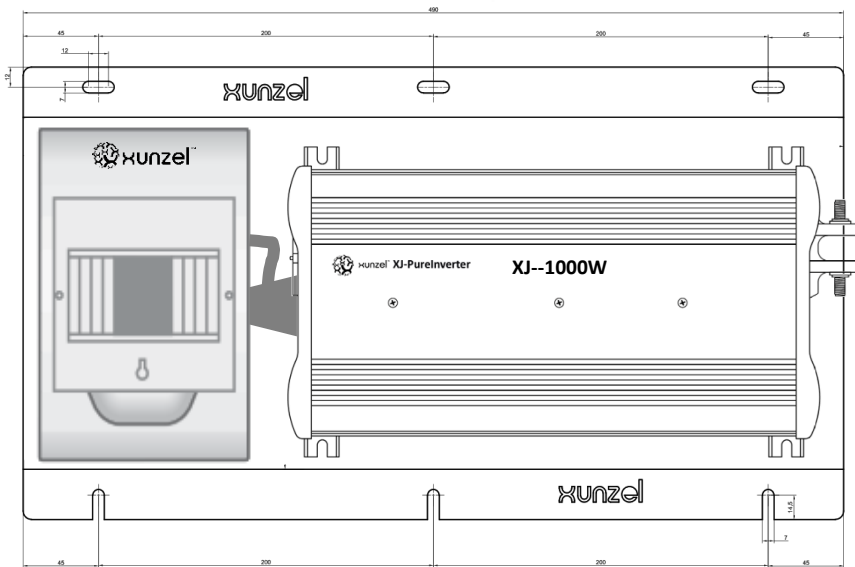
## Technical Drawings

**XJ-OnBoard-600W-12V**  
P|N: XJOB60012



**XJ-OnBoard-1000W-12V**  
P|N: XJOB100012

**XJ-OnBoard-1000W-24V**  
P|N: XJOB100024



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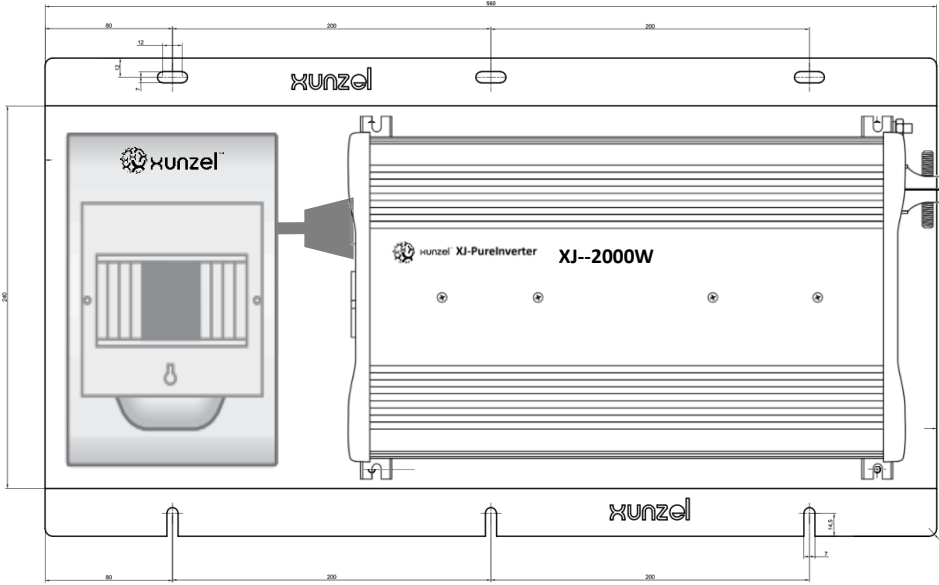


## XJ-OnBoard<sup>TM</sup> Series – Safe Ready to Go Advanced Pure Sinewave Inverters Systems

### Technical Drawings

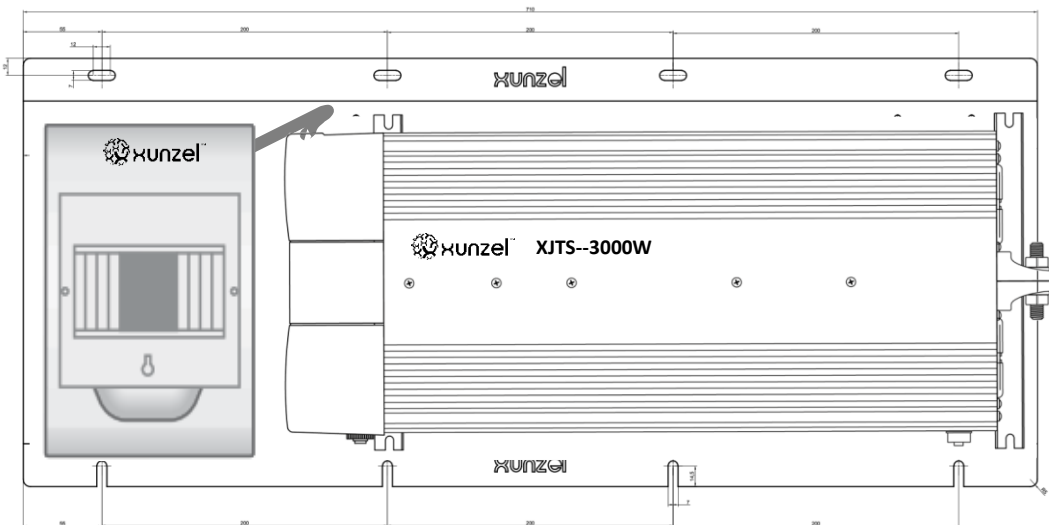
**XJ-OnBoard-2000W-12V**  
P|N: XJOB200012

**XJ-OnBoard-2000W-24V**  
P|N: XJOB200024



**XJTS-OnBoard-3000W-12V**  
P|N: XJOB300012

**XJTS-OnBoard-3000W-24V**  
P|N: XJOB300024



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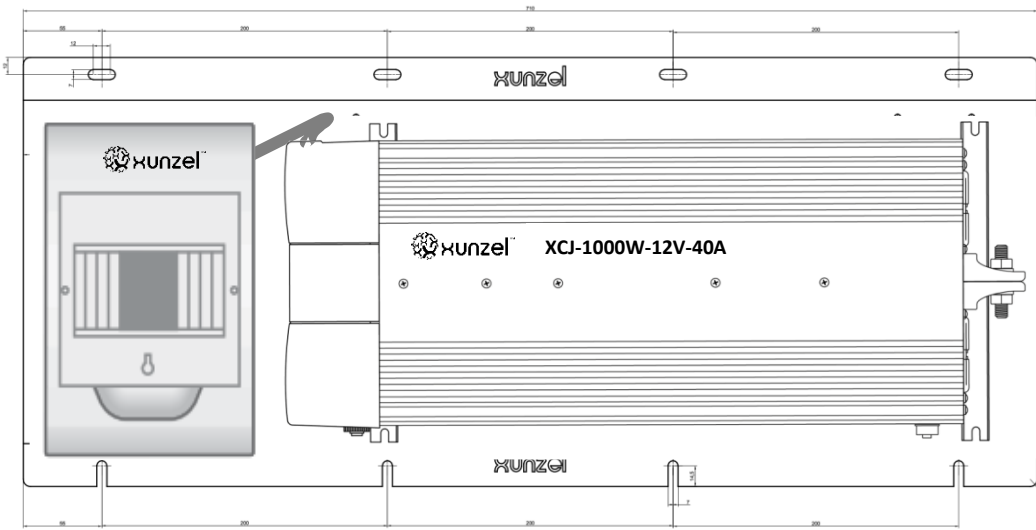




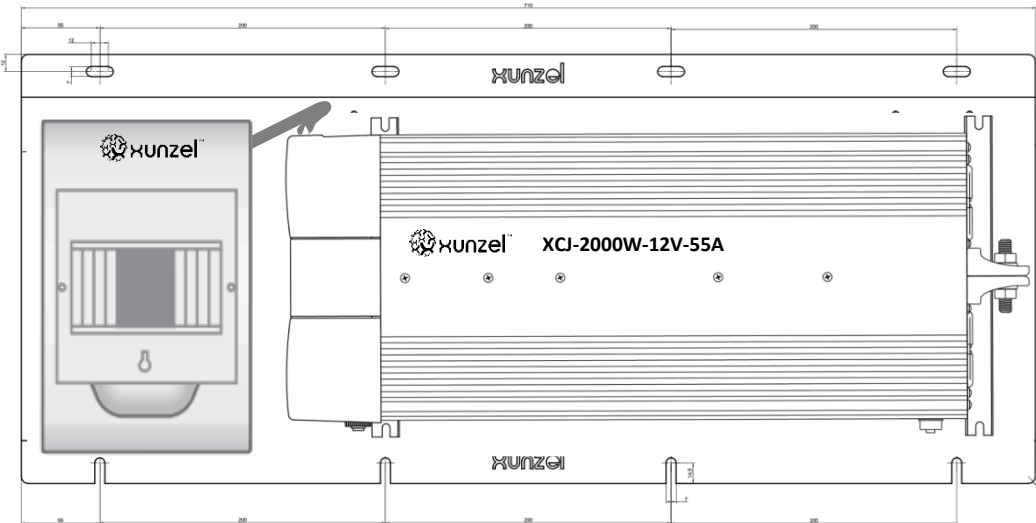
# XJ-OnBoard™ Series – Safe Ready to Go Advanced Pure Sinewave Inverters Systems

## Technical Drawings

**XJC-OnBoard-1000W-12V-40A**  
P|N: XJOB100012C



**XJC-OnBoard-2000W-12V-55A**  
P|N: XJOB200012C



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