

XJ™ Series - Advanced Pure Sinewave Inverters

XJ™ Series – XUNZEL

State of the art and easy to use design, these inverters will offer you reliable service for providing AC power and 5V USB power from battery. 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 DC 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. **High Resistance Anodized Aluminium Case**. (excl. XJ-400W model)
- 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.
- 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 (code: **SM2XJ**)
 - XJ-OnBoard™ Systems (code: **XJONBOARD**)
 - Automatic Transfer Switch (code: **TSXJ10**)

Available Models

- **XJ-400W-12V-Handy** 400W / 12VDC / 1x 230VAC 50Hz
- **XJ-600W-12V** 600W / 12VDC / 1x 230VAC 50Hz + USB 5VDC 2.1A
- **XJ-1000W-12V** 1000W / 12VDC / 1x 230VAC 50Hz + USB 5VDC 2.1A
- **XJ-2000W-12V** 2000W / 12VDC / 2x 230VAC 50Hz + USB 5VDC 2.1A
- **XJTS-3000W-12V** 3000W / 12VDC / 2x 230VAC 50Hz + USB 5VDC 2.1A +Transfer Switch
- **XJ-500W-24V** 500W / 24VDC / 1x 230VAC 50Hz + USB 5VDC 2.1A
- **XJ-1000W-24V** 1000W / 24VDC / 1x 230VAC 50Hz + USB 5VDC 2.1A
- **XJ-2000W-24V** 2000W / 24VDC / 2x 230VAC 50Hz + USB 5VDC 2.1A
- **XJTS-3000W-24V** 3000W / 24VDC / 2x 230VAC 50Hz + USB 5VDC 2.1A +Transfer Switch

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XJ-2000W-12V
XJ-2000W-24V
XJ-1000W-12V
XJ-1000W-24V
XJ-600W-12V
XJ-500W-24V
XJ-400W-12V
-HANDY
E9
E-Mark



XJTS-3000W-12V
XJTS-3000W-24V

With **Transfer-Switch**. Integrated mains priority circuit with voltage synchronization



XJ-2000W

Digital display and USB 2.1A output
(for models XJ-1000W, 2000W and 3000W)



XJ-2000W

Heavy duty DC terminal. More Safety

Industry Leading Technology for Off-Grid, Off-Shore and Backup Power Applications



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Product features

- **Maintenance Free True Sine Wave Output** is ideal for operating motors, permanent 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.

Efficient Automatic Cooling System. Hi-efficiency and silent.

Heavy duty DC battery stud connectors. More Safety.

Socket outlet with safety shutter protection offers increased contact protection and protects from dust and dirt. SCHUKO®, International and Special sockets available.



Certified for Automotive



True / Pure Sine Wave. All loads – including sensitive ones – will perform better, run cooler, and generate low harmonic distortion when connected to this waveform.



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

Anodized Aluminum Body with stainless steel screws. Installation is robust, safe, quick and easy, requiring only mounting screws for the plate and connection of the DC power.

Control Unit with Digital Display. Easy to use and program different user modes.



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XJ™ Series - Advanced Pure Sinewave Inverters

Technical Specifications

MODEL	XJ-400W-12V-HANDY	XJ-600W-12V	XJ-1000W-12V	XJ-2000W-12V	XJ-500W-24V	XJ-1000W-24V	XJ-2000W-24V
XUNZEL Code	XJ4001202HCA	XJ6001202U	XJ10001202U	XJ20001202U	XJ5002402U	XJ10002402U	XJ20002402U
INVERTER							
AC Output Power Nominal / Peak at any temperature	400/800W	600/1200W	1000/2000W	2000/4000W	500/1000W	1000/2000W	2000/4000W
AC Output Current	1.74A _{AC}	2.60A _{AC}	4.35A _{AC}	8.70A _{AC}	2.17A _{AC}	4.35A _{AC}	8.70A _{AC}
AC Output Voltage / Frequency	230V _{AC} / 50Hz						
AC Output Waveform	Real Pure Sinewave Output (THD<3%)						
Peak Efficiency	> 95%						
Nominal DC Input Voltage	12.50V _{DC}				25.00V _{DC}		
DC Input Operation Range	10.5 - 15.5V _{DC}				21.0 – 31.0V _{DC}		
Power Saving Mode	N/A	YES					
No Load Current with Power Save Mode OFF/ON	<0.80A _{DC}	<0.80/0.20A _{DC}	<1.50/0.17A _{DC}		<0.50/0.10A _{DC}	<0.60/0.10A _{DC}	
Under Voltage Shutdown	10.50V _{DC}				21.00V _{DC}		
Under Voltage Recovery	12.00V _{DC}				23.60V _{DC}		
Over Voltage Shutdown	15.90V _{DC}		15.75V _{DC}		31V _{DC}		
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 _{DC} -2100mA _{DC}					
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	
SAFETY AND ENVIRONMENTAL							
Standards	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						
WEIGHT AND DIMENSIONS							
Weight	1.10kg	2.00kg	2.70kg	5.20kg	1.73kg	2.70kg	5.20kg
Dimensions	218x152x66mm	237x175x89mm	321x175x89mm	414x230x110mm	200x175x89mm	321x175x89mm	414x230x110mm
Case Material	High Impact Resistance ABS	High Resistance Anodized Aluminium					



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XJ™ Series - Advanced Pure Sinewave Inverters

Technical Specifications

MODEL	XJTS-3000W-12V	XJTS-3000W-24V
XUNZEL Code	XJTS30001202U	XJTS30002402U
INVERTER		
AC Output Power Nominal / Peak <i>at any temperature</i>	3000/6000W	
AC Output Current	13.0A _{AC}	
AC Output Voltage / Frequency	230V _{AC} / 50Hz	
AC Output Waveform	Pure Sinewave (THD<3%)	
Peak Efficiency	>92%	
Nominal DC Input Voltage	12.50V _{DC}	25.00V _{DC}
DC Input Operation Range	10.5 - 15.5V _{DC}	21.0 – 31.0V _{DC}
Power Saving Mode	Yes	
No Load Current with Power Save Mode OFF/ON	<1.50/0.17A _{DC}	<0.60/0.10A _{DC}
Under Voltage Shutdown	10.50V _{DC} (Programable to 11.80V _{DC} for Start Battery Car)	21.00V _{DC} (Programable to 23.60V _{DC} for Start Battery Car)
Under Voltage Recovery	12.00V _{DC} (Programable to 12.60V _{DC} for Start Battery Car)	23.60V _{DC} (Programable to 25.20V _{DC} for Start Battery Car)
Over Voltage Shutdown	15.50V _{DC}	31.00V _{DC}
AC Output Ports	1x EU schuko socket + 1x Hardwire	
Power Save Mode OFF/ON Load Sense Threshold	≤3W / ≥10W	
USB port	5V _{DC} - 2100mA _{DC}	
AC Transfer Switch	Transfer Time < 30ms Transfer Relay Rating 16A	
Battery Minimum Capacity	> 960Ah - 12V	> 480Ah - 24V
Display	LCD display + LED indicators	
SAFETY AND ENVIRONMENTAL		
Standards	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	
WEIGHT AND DIMENSIONS		
Weight	6.90kg	
Dimensions	539x230x115mm	
Case Material	High Resistance Anodized Aluminium	



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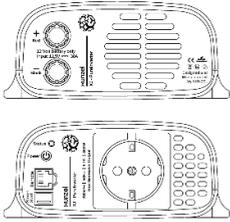
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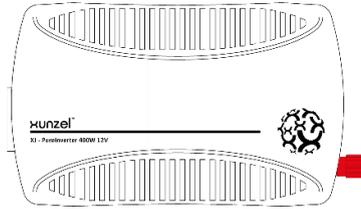
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Technical Drawings

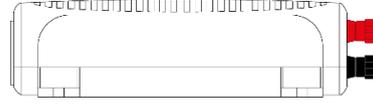
XJ-400W-12V-HANDY



Plan View

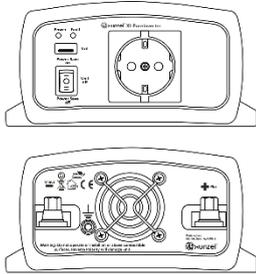


Top View

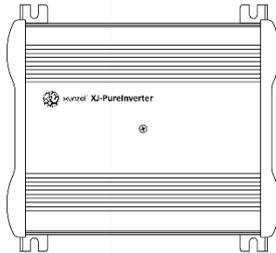


Side View

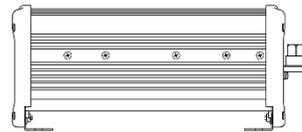
XJ-500W-24V



Plan View

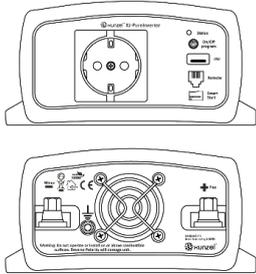


Top View

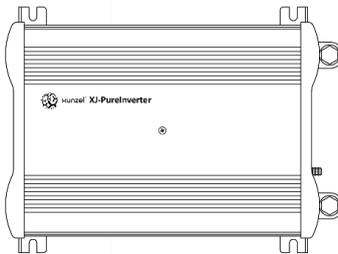


Side View

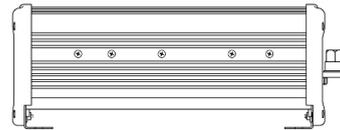
XJ-600W-12V



Plan View



Top View



Side View

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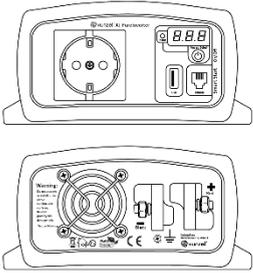
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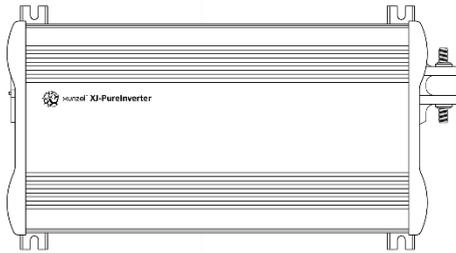
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Technical Drawings

XJ-1000W-12V and XJ-1000W-24V



Plan View

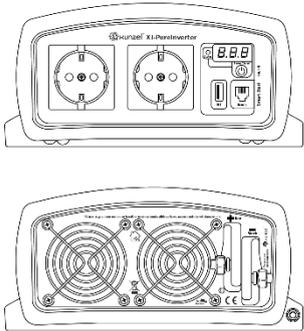


Top View

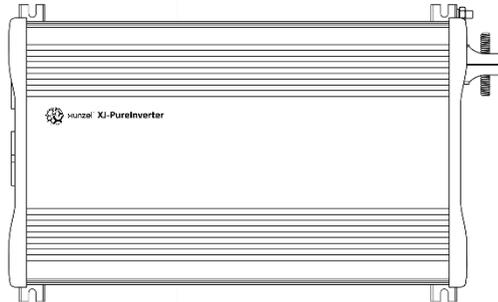


Side View

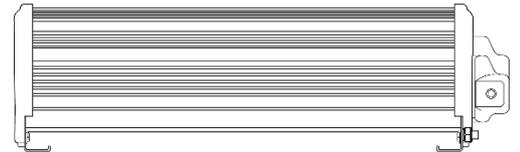
XJ-2000W-12V and XJ-2000W-24V



Plan View

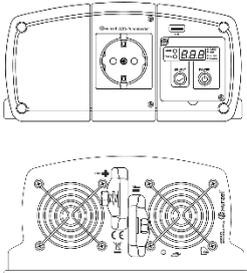


Top View

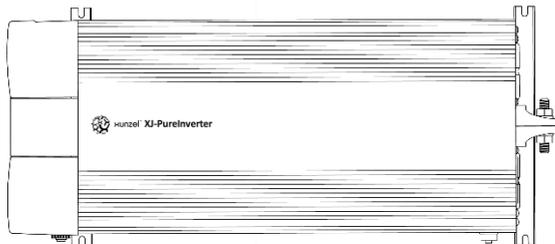


Side View

XJTS-3000W-12V and XJTS-3000W-24V



Plan View



Top View



Side View

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XJ™ Series - Advanced Pure Sinewave Inverters

Models

XJ-400W-12V-HANDY



XJ-500W-24V



XJ-600W-12V



XJ-1000W-12V



XJ-1000W-24V



XJ-2000W-12V



XJ-2000W-24V



XJTS-3000W-12V



XJTS-3000W-24V



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