3000W APS X Series 24VDC 230V Inverter/Charger with Pure Sine-Wave Output, Hardwired

MODEL NUMBER: **APSX3024SW**

Portable 3000W power source for tools, saws, pumps, portable lighting, appliances and computer equipment as a vehicle inverter, standalone AC power source or extended-run UPS. Ideal for mobile, emergency and remote sites.

Highlights

- Delivers pure sine-wave 230V AC power from AC or DC source
- 3000W continuous output power; 6000W peak power
- Auto-transfer switching option for UPS operation
- Protects against blackouts, surges and EMI/RFI line noise
- Rugged steel housing resists moisture and impact

Package Includes

- APSX3024SW 3000W APS X Series 24V DC 230V AC Inverter/Charger
- Owner's manual

Description

The APSX3024SW 3000W APS X Series 24V DC 230V AC Inverter/Charger is a reliable power source for a wide variety of power tools, computers, audio/video components and other sensitive electronics at mobile, emergency and remote sites. With no fumes, fuel or excess noise, it's an excellent alternative to generator power.

The DC-to-AC pure sine-wave inverter delivers network-grade power to sensitive electronics. Its automatic line-to-battery transfer switch and integrated charging system allow the unit to work as a vehicle inverter, standalone AC power source or extended-run UPS. It delivers 3000W of continuous power, 4500W up to one minute or 6000W of peak power up to 10 seconds during equipment startup or cycling. An automatic overload detector, cooling fan and resettable AC circuit breakers protect the unit from damage.

Designed for easy installation in RVs, commercial and fleet vehicles and emergency vehicles, the APSX3024SW converts stored power from any 24V battery or automotive DC source to safe, stable, computer-grade AC power for unlimited runtime. When hardwired to an external 230V AC source, the unit keeps the user-supplied battery charged via a three-stage 23/90A selectable charging system while simultaneously delivering AC power to connected equipment.

When used as a UPS, the APSX3024SW responds to blackouts and brownouts with an automatic, instantaneous transfer to battery-derived AC output. LEDs on the unit indicate load percentage and battery charge level.

Features

Reliable Power for Mobile, Emergency and Remote Sites

- Generates 230V pure sine-wave power from 24V battery bank
- Ideal for powering variable-speed tools, computers, LEDs, fans, audio/video components and other sensitive electronics
- Designed for easy installation in RVs, commercial and fleet vehicles, emergency vehicles and construction equipment
- Functions as vehicle inverter, standalone AC power source or extended-run UPS
- Unlimited runtime with variety of user-supplied batteries

Pure Sine-Wave Power for Normal and Peak Power Demands

- 3000W of continuous power
- 4500W of reserve power up to 1 min.
- 6000W of peak power up to 10 sec. to accommodate surge power demands during equipment startup and cycling
- Automatic overload detector, built-in cooling fan and resettable AC circuit breakers protect unit from damage
- High-current DC input terminals for simple hardwired installation

Automatic Voltage Regulation
- Corrects brownouts and overvoltages without using battery power during battery charging and UPS standby modes

Automatic Transfer Switching
- Transfer relay switches to inverter power during blackout in 20 ms
- 3-position switch enables Auto, Charge Only or System Off mode

3-Stage 23/90A Selectable Battery Charger
- Serves as battery charger when external 230V AC power is supplied and powering connected equipment
- Protects battery from overcharging and overdischarging
- Low-battery protection prevents excessive battery depletion
- DIP switches configure wet/gel charging profiles

External Ports
- Battery temperature port allows connection of optional battery temperature sensor
- RJ45 communication port allows connection of optional remote control module, such as APSRM4

Front-Panel LEDs
- Indicate load percentage and battery charge level

Rugged Steel Housing
- Resists moisture, vibration, impact and high-humidity environments
- Built-in mounting feet for installation on any rigid horizontal surface

Specifications

OVERVIEW	
UPC Code	037332141071
INPUT	
Nominal Input Voltage(s) Supported	230V AC
Recommended Electrical Service	DC INPUT: Requires 24VDC input source capable of delivering 145A for the required duration (when used at full continuous capacity - DC requirements increase during OverPower and DoubleBoost operation).
Maximum Input Amps	28
Input Connection Type	DC INPUT: Set of DC bolt-down terminals. AC INPUT: Hardwire via built in terminal strip with cover plate

Voltage Compatibility (VAC)	230
Voltage Compatibility (VDC)	24
OUTPUT	
Frequency Compatibility	50 / 60 Hz
Frequency Compatibility Details	50 or 60 Hz (user-selectable)
Pure Sine Wave Output	Yes
Nominal Output Voltage(s) Supported	230V
Output Receptacles	Hardwire
Continuous Output Capacity (Watts)	3000
Peak Output Capacity (Watts)	6000
Output Voltage Regulation	LINE POWER (AC): Maintains 230V nominal sine wave output from line power source. INVERTER POWER (AC): Maintains sine wave output voltage of 230 VAC (+/-5%).
Output Frequency Regulation	50/60 Hz (+/- 0.3 Hz)
BATTERY	
Expandable Runtime	Yes
Expandable Battery Runtime	Runtime is expandable with any number of user supplied wet or gel type batteries
Expandable Runtime Description	Runtime is expandable with any number of user supplied wet or gel type batteries
DC System Voltage (VDC)	24
Battery Pack Accessory (Optional)	98-121 sealed lead acid battery (optional)
Battery Charge	Selectable 23 / 90A
VOLTAGE REGULATION	
Voltage Regulation Description	Includes automatic voltage regulation to correct brownouts and overvoltages back to usable levels
Overvoltage Correction	Overvoltages are automatically reduced by 10%
Brownout Correction	Brownouts are automatically boosted by 10% and 20%
USER INTERFACE, ALERTS & CONTROLS	
Front Panel LEDs	Set of 6 LEDs offer continuous status information on load percentage (6 levels reported) and battery charge level (7 levels reported). See manual for sequences.
Switches	3 position on/off/remote switch enables simple on/off power control plus "auto/remote" setting that enables distant on/off control of the inverter system when used in conjunction with optional APSRM4 accessory when used in inverter mode. In AC uninterruptible power mode, "auto/remote" setting enables automatic transfer from line power to battery power - to maintain continuous AC power to connected loads.
PHYSICAL	
Material of Construction	Metal
Cooling Method	Fan

Shipping Dimensions (hwd / in.)	20.08 x 18.43 x 22.52
Shipping Dimensions (hwd / cm)	51.00 x 46.81 x 57.20
Shipping Weight (lbs.)	87.00
Shipping Weight (kg)	39.46
Unit Dimensions (hwd / in.)	10.080 x 8.900 x 12.400
Unit Dimensions (hwd / cm)	25.60 x22.606 x 31.496
Unit Weight (lbs.)	64.8
Unit Weight (kg)	29.39
ENVIRONMENTAL	
Relative Humidity	0%-95% Non-Condensing
Operating Temperature	32 to 104 F (0 to 40 C)
LINE / BATTERY TRANSFER	
Transfer Time (Line Power to Battery Mode)	Dip-switch selectable 20 millisecond (full cycle) / 10 millisecond (half-cycle) transfer times which are compatible with many computers, servers and networking equipment - verify transfer time compatibility of loads for UPS applications
Low Voltage Transfer to Battery Power	In 230V AC "auto" mode, inverter/charger switches to battery mode as line voltage drops to 170V AC (user adjustable to 180V).
High Voltage Transfer to Battery Power	In 230V AC "auto" mode, inverter/charger switches to battery mode as line voltage increases to 260V (user adjustable to 270 - see manual).
FEATURES & SPECIFICATIONS	
Grounding	Main grounding lug connects inverter/charger to earth or vehicle chassis ground
STANDARDS & COMPLIANCE	
Product Certifications	UL 1741
Product Compliance	RoHS
WARRANTY & SUPPORT	
Product Warranty Period (U.S. & Canada)	2-year limited warranty
Product Warranty Period (International)	2-year limited warranty
Product Warranty Period (Mexico)	2-year limited warranty
Product Warranty Period (Puerto Rico)	2-year limited warranty

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