6000W APS X Series 48VDC 208/230V Inverter/Charger with Pure Sine-Wave Output, AVR, Hardwired

MODEL NUMBER: **APSX6048VRNET**







Portable 6000W power source for power tools, computers, audio/video components and other sensitive electronics as a vehicle inverter, standalone AC power source or extended-run UPS. Optional network interface for remote monitoring operation.

Highlights

- Delivers pure sine-wave AC power from AC or DC source
- 6000W continuous output power; 12000W peak power
- Auto-transfer switching option for UPS operation
- DB9 port for optional SNMPWEBSOLOHV network management
- Corrects brownouts and overvoltages without using battery power

Package Includes

- APSX6048VRNET 6000W APS X Series 48V DC 208/230V AC Inverter/Charger
- Owner’s manual

Description

The APSX6048VRNET 6000W APS X Series 48V DC 208/230V 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 clean 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 6000W of continuous power, 9000W up to one minute or 12000W 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, emergency vehicles and construction equipment, the APSX6048VRNET converts stored power from a 48V battery or automotive DC source to safe, stable, computer-grade AC power for unlimited runtime in heavy-load conditions. When hardwired to an external 208V or 230V AC source, the unit keeps the user-supplied battery charged via a three-stage 23/90A selectable charging system while simultaneously delivering conditioned, pure sine-wave AC power to connected equipment.

When used as a UPS, the APSX6048VRNET responds to blackouts and brownouts with an automatic, instantaneous transfer to battery-derived, pure sine-wave AC power. The optional SNMPWEBSOLOHV accessory card enables remote monitoring of the unit via SNMP, SSH, Telnet, and Internet.

Features

Reliable Power for Mobile, Emergency and Remote Sites

- Generates 208/230V pure sine-wave power from 48V battery bank
- Ideal for powering variable-speed tools, computers, LEDs, fans, audio/video components and other sensitive electronics
- Designed for easy installation in RVs, fleet vehicles and emergency vehicles
- 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

- 6000W of continuous power
- 9000W of reserve power up to 1 min.
- 12000W of peak power up to 10 sec. to accommodate surge power demands during equipment startup and cycling
- Automatic overload detector, cooling fan and resettable AC circuit breaker 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

Remote Monitoring Capability
- DB9 port for optional SNMPWEBSOLOHV, which turns the unit into a monitored network device
- Enables network monitoring via SNMP, SSH, Telnet, or the Internet

Automatic Transfer Switching
- Transfer relay switches to inverter power during blackout in 10 or 20 ms
- DIP switches configure high and low voltage auto-transfer

3-Stage 23/90A Selectable Battery Charger
- Serves as battery charger when external 208V or 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

Remote Generator Starter Jack
- Connects to separate generator with user-supplied cable to automatically cycle generator when battery level is low

Rugged Steel Housing
- Resists moisture, vibration, impact and high-humidity environments

Specifications

OVERVIEW	
UPC Code	037332137838
INPUT	
Nominal Input Voltage(s) Supported	208V AC; 230V AC
Recommended Electrical Service	DC INPUT: Requires 48VDC input source capable of delivering 138A for the required duration (when used at full continuous capacity - DC requirements increase during OverPower and DoubleBoost operation). For automotive applications, professional hardwire installation with 250A minimum battery system fusing is recommended.
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)	208; 230

Voltage Compatibility (VDC)	48
OUTPUT	
Frequency Compatibility	50 / 60 Hz
Pure Sine Wave Output	Yes
Nominal Output Voltage(s) Supported	208V; 230V
Output Receptacles	Hardwire
Continuous Output Capacity (Watts)	6000
Peak Output Capacity (Watts)	12000
Output Voltage Regulation	LINE POWER (AC): Maintains 208/230V nominal sine wave output from line power source. INVERTER POWER (AC): Maintains sine wave output voltage of 208/230 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)	48
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 over-voltages back to usable levels
Overvoltage Correction	Input voltages above 252V are automatically reduced by 9% (230V) / Input voltages above 235/245V are automatically reduced by 10% (208V)
Brownout Correction	Input voltages from 208V -189V are automatically boosted by 11% (230V) / Input voltages from 188V-166V are automatically boosted 12% (208V)
Severe Brownout Correction	Input voltages from 188V - 171V are automatically boosted by 26% (230V only)
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	Dual multi-speed fans

Form Factors Supported	Mounting slots enable permanent placement of inverter on any horizontal surface (see manual for additional mounting information)
Shipping Dimensions (hwd / in.)	16.00 x 14.50 x 23.25
Shipping Dimensions (hwd / cm)	40.64 x 36.83 x 59.06
Shipping Weight (lbs.)	131.00
Shipping Weight (kg)	59.42
Unit Dimensions (hwd / in.)	10.080 x 8.960 x 19.450
Unit Dimensions (hwd / cm)	25.5 x 49.5 x 22.71
Unit Weight (lbs.)	106.50
Unit Weight (kg)	48.31
ENVIRONMENTAL	
Relative Humidity	0%-95% Non-Condensing
COMMUNICATIONS	
SNMP Compatibility	Optional SNMPWEBSOLOHV accessory card enables remote monitoring of the unit via SNMP, SSH, telnet or Internet.
Communications Interface	Contact closure; DB9 Serial
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). In 208V AC "auto" mode, inverter/charger switches to battery mode as line voltage drops to 165V (user adjustable to 175V)-see manual
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), In 208V AC "auto" mode, inverter/charger switches to battery mode as line voltage increases to 235V (user adjustable to 245V-see manual)
FEATURES & SPECIFICATIONS	
Grounding	Main grounding lug connects inverter/charger to earth or vehicle chassis ground
Generator Start Compatibility	RJ-11 port connects to a generator with user-supplied cable to automatically cycle generator when battery level is low
Battery Temperature Sensor	RJ-11 port connects to optional battery temperature sensor cable to regulate the charging system based on battery temperature
STANDARDS & COMPLIANCE	
Product Certifications	IEC/EN 62040
Product Compliance	RoHS; CE (Europe)
WARRANTY & SUPPORT	
Product Warranty Period (Worldwide)	2-year limited warranty

1000 Eaton Boulevard
Cleveland, OH 44122
United States
https://tripplite.eaton.com

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