

4000W APS X Series 48VDC 220/230/240V Inverter/Charger with Pure Sine-Wave Output, ATS, Hardwired

MODEL NUMBER: **APSX4048SW**



Portable 4000W 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. Ideal for mobile, emergency and remote sites.

Description

The APSX4048SW 4000W APS X Series 48V DC 220/230/240V AC Inverter/Charger is a reliable power source for a wide variety of tools and sensitive electronics at mobile, emergency and remote sites. With no fumes, fuel or excess noise, it's an excellent alternative to generator power. It's operable in single-phase mode or three-phase mode for high-capacity industrial and commercial installations. The DC-to-AC pure sine-wave inverter delivers network-grade power. Its automatic line-to-battery transfer switch and integrated charging system allow the unit to work as an extended-run UPS, standalone AC power source or vehicle inverter. It delivers 4000W of continuous power, 6000W up to one minute or 8000W 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 APSX4048SW converts stored power from any 48V battery or automotive DC source to safe, stable, computer-grade AC power for unlimited runtime. When hardwired to an external AC source, the unit keeps the user-supplied batteries charged via a three-stage 1-70A selectable charging system while simultaneously delivering AC power to connected equipment. When used as a UPS, the APSX4048SW responds to blackouts and brownouts with an automatic, instantaneous transfer to battery-derived AC output.

Features

Reliable Power for Mobile, Emergency and Remote Sites

- Generates selectable 220/230/240V 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, 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
- Operable in single-phase or 3-phase mode for high-capacity industrial and commercial installations

Pure Sine-Wave Power for Normal and Peak Power Demands

- 4000W of continuous power

Highlights

- Delivers pure sine-wave AC power from AC or DC source
- Continuous 220/230/240V selectable AC input/output
- Operates in single- or 3-phase mode
- 4000W continuous output power; 8000W peak power
- Auto-transfer switching option for UPS operation

Package Includes

- APSX4048SW 4000W APS X Series 48V DC 220/230/240V AC Inverter/Charger
- Owner's manual
- Termination loops
- Parallel/stacking cable
- ASNET cable



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- 6000W of reserve power up to 1 min.
- 8000W 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

Configures in Parallel Connection

- Configure up to 7 units in a parallel connection for increased capacity up to 28 kW

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-Stage 1~70A Selectable Battery Charger

- Provides a selectable maximum charge rate up to 70A to the connected DC battery system.
- Serves as battery charger when external AC power is supplied and powering connected equipment
- Protects battery from overcharging and overdischarging

External Ports

- Battery temperature port allows connection of optional remote battery temperature sensor, such as APSSWTEMP
- ASNET (RJ45) ports allows remote monitoring through RS-485 (Modbus) communication

Front-Panel LCD

- Easy-to-use display and buttons allow operation configuration
- LEDs indicate load percentage and battery charge level

Rugged Steel Housing

- Resists moisture, vibration, impact and high-humidity environments

Specifications

OVERVIEW	
UPC Code	037332179067
INPUT	
Nominal Input Voltage(s) Supported	220V AC; 230V AC; 240V AC
Recommended Electrical Service	DC INPUT: Requires 48VDC input source capable of delivering 120A for the required duration (when used at full continuous capacity - DC requirements increase during OverPower and DoubleBoost operation). For automotive applications, professional hardwire
Maximum Input Amps	120



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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)	220; 230; 240
Voltage Compatibility (VDC)	48
OUTPUT	
Frequency Compatibility	50 / 60 Hz
Pure Sine Wave Output	Yes
Output (Watts)	4000
Nominal Output Voltage(s) Supported	220V; 230V; 240V
Output Receptacles	Hardwire
Continuous Output Capacity (Watts)	4000
Peak Output Capacity (Watts)	8000
Output Voltage Regulation	LINE POWER (AC): Maintains nominal sine wave output from line power source. INVERTER POWER (AC): Maintains sine wave output of +/-2%
Output Frequency Regulation	50/60 Hz (+/- 0.5 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 1 / 70A charge rate
USER INTERFACE, ALERTS & CONTROLS	
Front Panel LEDs	LCD display offers continuous status information on load percentage (6 levels reported) and battery charge level (7 levels reported). See manual for sequences.
Switches	5 membrane switches allow user to operate and configure unit operation.
PHYSICAL	
Material of Construction	Metal
Cooling Method	Fan
Shipping Dimensions (hwd / in.)	11.80 x 12.50 x 31.00
Shipping Dimensions (hwd / cm)	29.97 x 31.75 x 78.74
Shipping Weight (lbs.)	59.00
Shipping Weight (kg)	26.76
Unit Dimensions (hwd / in.)	9.000 x 7.250 x 22.500
Unit Dimensions (hwd / cm)	22.86 X 18.42 X 57.15



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Unit Weight (lbs.)	57
Unit Weight (kg)	25.85
ENVIRONMENTAL	
Relative Humidity	0%-95% Non-Condensing
Operating Temperature	32 to 104 F (0 to 40 C)
COMMUNICATIONS	
Network Monitoring Port	ASNET (RJ45) ports provide RS-485 (MODBUS) communication for remote monitoring and management
LINE / BATTERY TRANSFER	
Transfer Time (Line Power to Battery Mode)	20 millisecond (full cycle) / 10 millisecond (half-cycle)
Low Voltage Transfer to Battery Power	In AC "auto" mode, inverter/charger switches to battery mode as line voltage drops 10 to 80V AC (user adjustable). See manual
High Voltage Transfer to Battery Power	In AC "auto" mode, inverter/charger switches to battery mode as line voltage increases 10 to 40V AC (user adjustable). See manual
FEATURES & SPECIFICATIONS	
Grounding	Main grounding lug connects inverter/charger to earth or vehicle chassis ground
STANDARDS & COMPLIANCE	
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)	1-year limited warranty

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

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