Important Note

Position a 300A fuse link less than 18 in. from the battery in the positive line to protect against high-current draw that may occur during inverter failure.

3600W PowerVerter APS 36VDC 120V Inverter/Charger with Auto-Transfer Switching, Line-Interactive AVR

MODEL NUMBER: **APS3636VR**





Portable line-interactive power source for any type of equipment from power tools to computers as a vehicle inverter, standalone AC power source or extended-run UPS. Ideal for RVs, commercial and fleet vehicles and emergency vehicles.

Highlights

- Delivers clean 120V AC power from AC or DC power source
- 3600W continuous output power; 7200W peak power
- Auto-transfer switching option for UPS operation
- Corrects brownouts and overvoltages without using battery power
- Includes APSRM4 remote control module

Package Includes

- APS3636VR 3600W PowerVerter APS 36V DC 120V AC Inverter/Charger
- APSRM4 remote control module
- Owner’s manual

Description

The APS3636VR 3600W PowerVerter APS 36V DC 120V AC Inverter/Charger is a reliable power source for a wide variety of equipment ranging from power tools, pumps and portable lighting to laptop computers and sensitive monitoring equipment. With no fumes, fuel or excess noise, it’s an excellent alternative to generator power.

The DC-to-AC inverter features an automatic line-to-battery transfer switch and integrated charging system that allow it to work as a vehicle inverter, standalone AC power source or extended-run UPS. It delivers 3600W of continuous power, 5400W up to one hour, or 7200W 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 APS3636VR converts stored power from any 36V battery or automotive DC source to computer-grade AC power for unlimited runtime. When hardwired to an external 120V AC source, the unit keeps the user-supplied battery charged via a three-stage 30A charging system while simultaneously delivering AC power to connected equipment.

When used as a UPS, the APS3636VR’s automatic voltage regulation feature protects your equipment against blackouts, brownouts, surges and line noise. An APSRM4 module with “traffic light” LEDs is included to provide complete remote monitoring and control of the unit.

Features

Reliable Power for Mobile, Emergency and Remote Sites

- Generates safe, stable, computer-grade 120V AC power from 36V battery bank
- Ideal for powering tools, saws, motors, pumps, portable lighting, appliances and computer equipment in heavy-load conditions
- Designed for easy installation in RVs, commercial and fleet vehicles, emergency vehicles and construction equipment

- Functions as a vehicle inverter, standalone AC power source or extended-run UPS
- Unlimited runtime with variety of user-supplied batteries

Meets Normal and Peak Power Demands
- 3600W of continuous power
- 5400W of reserve power up to 1 hr.
- 7200W 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
- Protects against line noise that can damage equipment or cause data loss

Automatic Transfer Switching
- Transfer relay switches to inverter power during blackout in 16.6 ms
- 3-position switch enables Auto, Charge Only or System Off mode
- DIP switches configure high and low voltage auto-transfer

3-Stage 30A Battery Charger
- Serves as battery charger when external 120V 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 Control Capability
- Included APSRM4 remote control module provides remote monitoring and control of unit

Front-Panel LEDs
- Indicate AC/DC operational modes, overload status, DC voltage level, shutdown status and system fault status

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

Specifications

OVERVIEW	
UPC Code	037332042392
INPUT	

Nominal Input Voltage(s) Supported	120V AC
Maximum Input Amps / Watts	DC INPUT: Full continuous load - 114A at 36VDC. AC INPUT: 54 amps at 120VAC with full inverter and charger load (20A max charger-only / combined input load to support charger and AC output is automatically controllable to 66%-33%-0% based on AC output load
Recommended Electrical Service	DC INPUT: Requires 36VDC input source capable of delivering 114A for the required duration (when used at full continuous capacity - DC requirements increase during Over-Power and Double-Boost operation).
Input Connection Type	DC INPUT: Set of DC bolt-down terminals. AC INPUT: Hardwire via built in junction box with cover plate
Voltage Compatibility (VAC)	120
Voltage Compatibility (VDC)	36
OUTPUT	
Frequency Compatibility	60 Hz
Pure Sine Wave Output	No
Output (Watts)	3600
Nominal Output Voltage(s) Supported	120V
Output Receptacles	Hardwire
Continuous Output Capacity (Watts)	3600
Peak Output Capacity (Watts)	7200
Output Voltage Regulation	LINE POWER (AC): Maintains 120V nominal sine wave output from line power source. INVERTER POWER (AC): Maintains PWM sine wave output voltage of 120 V AC (+/-5%).
Output Frequency Regulation	60 Hz (+/- 0.3 Hz)
Overload Protection	Includes 25A input breaker dedicated to the charging system and 30A output breaker for AC output loads.
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)	36
Battery Pack Accessory (Optional)	98-121 sealed lead acid battery (optional)
Battery Charge	30A
VOLTAGE REGULATION	
Voltage Regulation Description	Includes automatic voltage regulation to correct brownouts and over-voltages back to usable levels
Overvoltage Correction	Over-voltages starting at 127 are automatically reduced by 10%
Brownout Correction	Brownouts starting at 103 are automatically boosted by 10%
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 External switch for wired remote control of APS unit (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	Polycarbonate
Cooling Method	Multi-speed fan
Form Factors Supported	Mounting slots enable permanent placement of inverter on any horizontal surface (see manual for additional mounting information)
Shipping Dimensions (hwd / in.)	13.30 x 14.80 x 21.20
Shipping Dimensions (hwd / cm)	33.78 x 37.59 x 53.85
Shipping Weight (lbs.)	63.66
Shipping Weight (kg)	28.88
Unit Dimensions (hwd / in.)	7.250 x 8.500 x 16.250
Unit Dimensions (hwd / cm)	18.41 x 21.59 x 41.28
Unit Weight (lbs.)	55.8
Unit Weight (kg)	25.31
ENVIRONMENTAL	
Relative Humidity	0%-95% Non-Condensing
LINE / BATTERY TRANSFER	
Transfer Time (Line Power to Battery Mode)	16.6 milliseconds (typical - compatible with many computers, servers and networking equipment - verify transfer time compatibility of loads for UPS applications)
Low Voltage Transfer to Battery Power	In AC "auto" mode, inverter/charger switches to battery mode as line voltage drops to 75V (user adjustable to 85, 95V - see manual)
High Voltage Transfer to Battery Power	In AC "auto" mode, inverter/charger switches to battery mode as line voltage increases to 135V (user adjustable to 145 - see manual)
FEATURES & SPECIFICATIONS	
Load Sensing	Optional load sense function enables automatic inverter shutoff and startup as connected equipment is powered off and on. Front panel load sense potentiometer can be set to shutoff or turn on inverter power in response to loads of any level, up to 150 watts.
STANDARDS & COMPLIANCE	
Product Compliance	RoHS
WARRANTY & SUPPORT	
Product Warranty Period (U.S. & Canada)	1-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

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