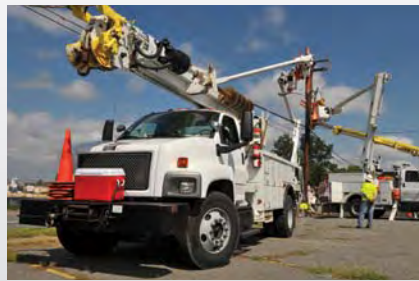


INVERTERS & INVERTER/CHARGERS



PowerVerter® DC-to-AC Inverters & Inverter/Chargers

Convert stored battery power to standard household current for mobile, emergency backup and remote site applications.



CONTENTS

Introduction	2
Inverters	3
Inverter/Chargers	4
Sine Wave Inverter/Chargers	5
Feature Focus	6-7
Specifications	8

Inverters and Inverter/Chargers Provide Reliable Power for Mobile, Emergency Backup and Remote Site Applications

Remote Job Sites

Inverters use your vehicle's battery to power tools, chargers and other equipment in any location. Inverter/Chargers also provide convenient battery backup and condition generator output.



Trucks, Boats and RVs

Inverters and Inverter/Chargers power computers, appliances, electronics and other equipment in transport trucks, boats and recreational vehicles, reducing engine wear, fuel use, noise and pollution.



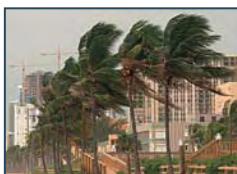
Off-Grid Locations

Inverter/Chargers store power from generators and renewable energy sources, saving fuel and ensuring power availability during non-generational periods, such as nighttime hours.



Emergency Power

Inverters and Inverter/Chargers provide backup power, convert vehicles into emergency generators and allow you to run generators less often to conserve fuel during severe weather and other outages.



Mobile Professionals

Inverters provide portable power for laptops, mobile phones and chargers inside vehicles without the expense and inconvenience of carrying special adapters for each device.



Healthcare

Medical-Grade and Ambulance Inverter/Chargers provide mobile power for medical equipment in ambulances, hospitals and other healthcare settings, including patient care areas.



How to Choose the Right Model for Your Application

1 Decide whether you need an Inverter or an Inverter/Charger.

Both Inverters and Inverter/Chargers provide household current (120V AC) from stored battery power, but only Inverter/Chargers connect to AC sources, pass AC through to equipment, recharge batteries and automatically switch to battery when AC power is unavailable. Inverters do not connect to AC sources and rely on vehicles to recharge batteries.

2 Determine the wattage required by connected equipment.

The *continuous* output rating (see page 8) of the Inverter or Inverter/Charger you choose must be greater than the wattage of the equipment you will power. (Add up the wattages of any equipment that will be powered simultaneously.) Equipment wattages are typically listed on nameplates or in manuals. If equipment is rated in amps, multiply by 120V to estimate wattage.

3 Decide whether you need special features.

Many Inverters and Inverter/Chargers have features that make them especially suitable for certain applications:

- **Models with GFCI outlets** meet OSHA requirements for worker protection in wet or humid environments.
- **Heavy-duty models** support demanding inductive loads like motors, compressors and pumps.
- **Models with sine wave output** and **fast transfer times** are ideal for backing up sensitive electronics like computers and network equipment. Some devices require sine wave output, including computers with active PFC power supplies.

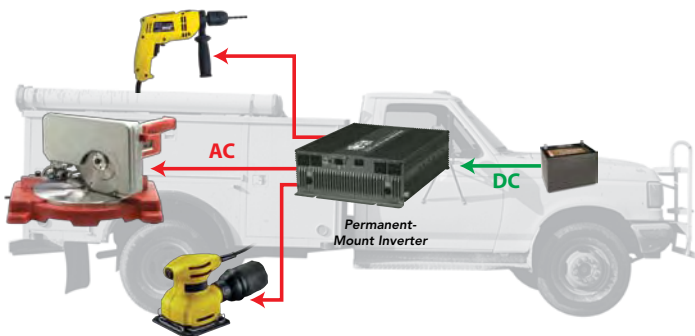
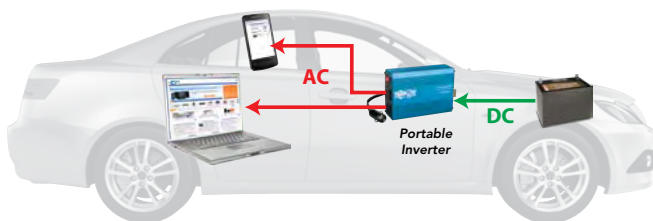
PowerVerter Inverters



Support Applications of All Sizes

PowerVerter Inverters convert DC power from a vehicle or boat battery into household AC power (120V) to run a variety of power tools, electronics and appliances.

- **Portable Inverters** are perfect for mobile professionals, business travelers and vacationers who want to operate and recharge laptops, tablets, smartphones and other devices in the car without the expense and inconvenience of carrying automotive chargers for each device.
- **Permanent-Mount Inverters** provide higher capacities to support multiple devices and higher-wattage equipment like power tools, appliances, desktop computer systems, home electronics and audio/video equipment.
- **Heavy-Duty Permanent-Mount Inverters** handle the most demanding applications. Extended peak surge power capabilities and conditioned output make them ideal for a wide variety of equipment, from heavy-duty drills, saws and pumps to computers, timing motors and sensitive monitoring equipment.

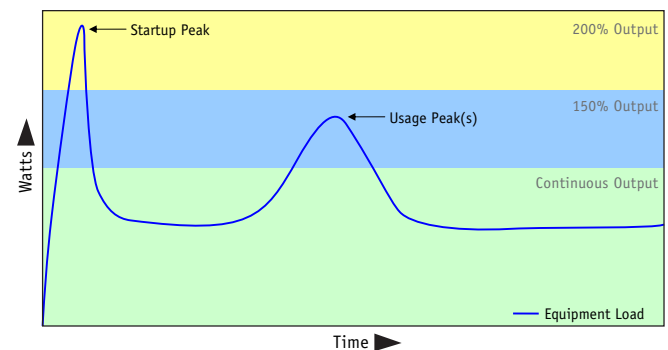


Inverters use your vehicle's battery to power equipment that runs or recharges on standard AC household current.

- Up to 3,000 Watts Continuous and 6,000 Watts Peak Surge Output
- Protection Against Surges, Line Noise and Unstable Voltages
- Portable, Permanent-Mount and Heavy-Duty Models Available

Handle Peak Power Demands

Many tools, appliances and electronics require more power at startup, during use or both. Motors found in equipment like refrigerators and pumps have fluctuating power demands, starting and stopping intermittently. PowerVerter Inverters handle these peak surge power demands by delivering up to 200% of their continuous output ratings to accommodate equipment startup and cycling requirements.



PowerVerter Inverters handle your equipment's peak power demands at startup and during use without shutting down.

Provide Regulated Output

PowerVerter Inverters provide stable output voltage and frequency to help your equipment perform at its peak, including sensitive devices like computers and audio/video equipment.

Preserve Your Battery

Through a high-efficiency conversion process and battery charge conservation, PowerVerter Inverters draw the highest level of performance from your batteries without overtaxing them, lengthening their service life. Automatic low-battery shutdown ensures you'll always have battery power available to start your vehicle.

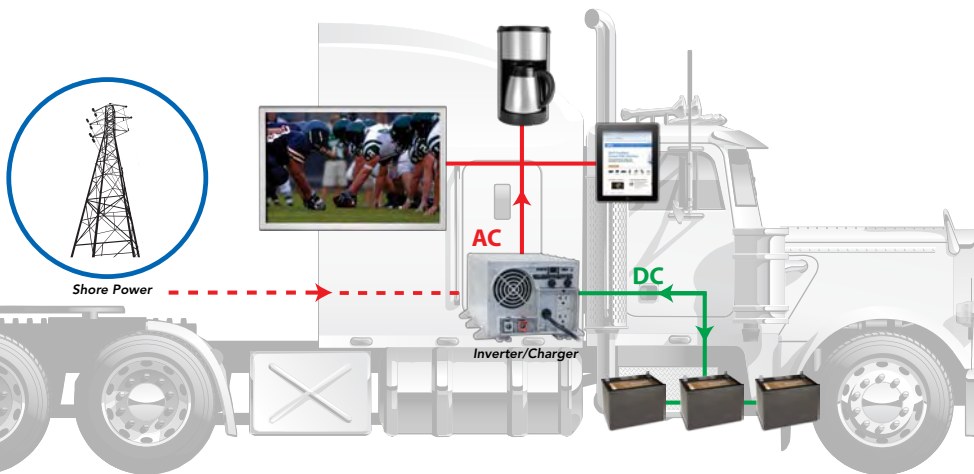
PowerVerter APS Inverter/Chargers



- Up to 3,600 Watts Continuous and 7,200 Watts Peak Surge Output
- Automatic Transfer from AC Source to Reliable Battery Backup Power
- Protection Against Blackouts, Surges, Line Noise and Unstable Voltages

Provide Reliable Backup Power

Inverter/Chargers have all the features of Inverters, plus a battery charger and automatic transfer switch that allow you to use batteries separate from a vehicle's main battery or outside a vehicle entirely. They provide mobile power, emergency power and backup power for generators and other AC sources. They are especially useful for off-grid locations and vehicles that have intermittent access to AC "shore power," such as boats, RVs and transport trucks.



When an AC source like a generator or shore power is available, the Inverter/Charger conditions AC power before passing it to your equipment and simultaneously charges your user-supplied batteries. When an AC source is not available (during power failures, at remote sites, while driving, when disconnected from shore power or when your generator is turned off), the Inverter/Charger automatically switches to battery power and your equipment continues to operate without interruption.

Deliver Superior Output

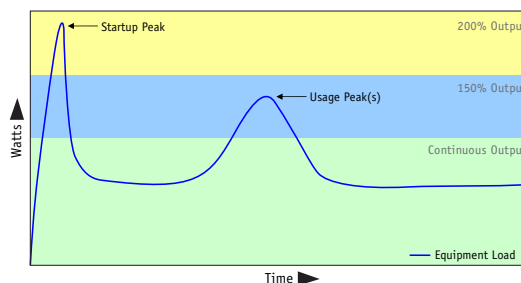
Inverter/Chargers provide stable output voltage and frequency to protect your equipment and allow it to perform at its peak. The Inverter/Charger acts as a safety buffer, conditioning unstable power from AC sources like generators before it reaches your equipment. When Inverter/Chargers operate from battery, the AC output is controlled by a microprocessor to provide reliable power at all times.

Charge Batteries Faster

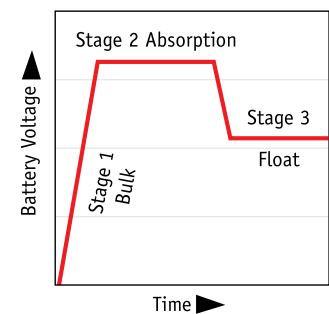
An advanced 3-stage charger recharges your batteries faster, while protecting them against over-charge, over-discharge and accidental depletion. You can connect as many batteries as you need to increase battery backup runtime to match any application.

Handle Peak Power Demands

Many power tools, appliances and electronics require brief bursts of power that exceed their continuous wattage ratings, either at startup, during use or both. Inverter/Chargers temporarily provide extra output power to handle these peak surge demands without shutting down. By providing ample reserve power, Inverter/Chargers support a much wider range of equipment and applications.



PowerVerter APS Inverter/Chargers handle your equipment's peak power demands at startup and during use without shutting down.



3-Stage Charging Profile

Sine Wave Inverter/Chargers



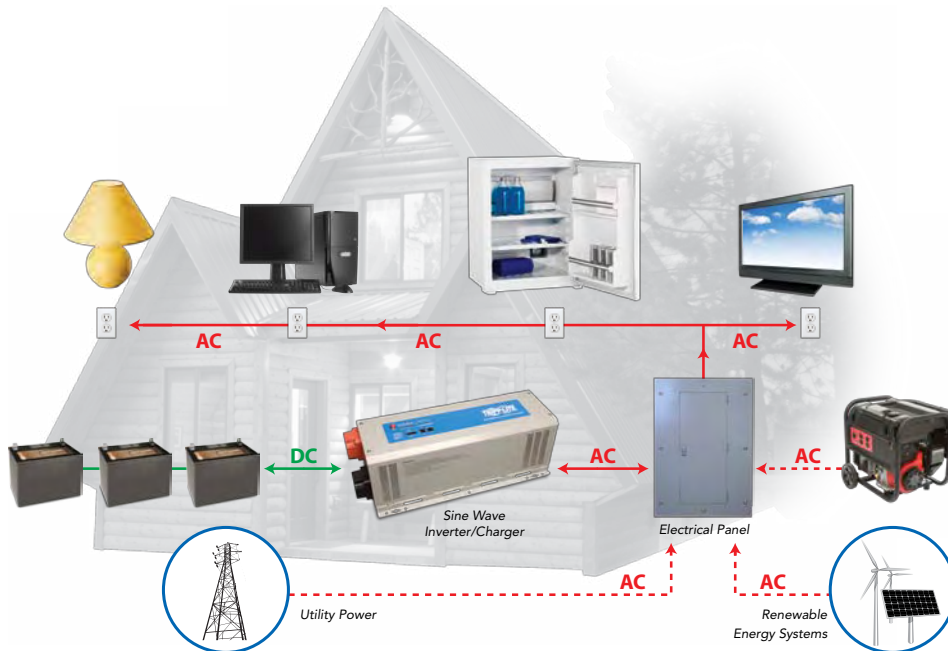
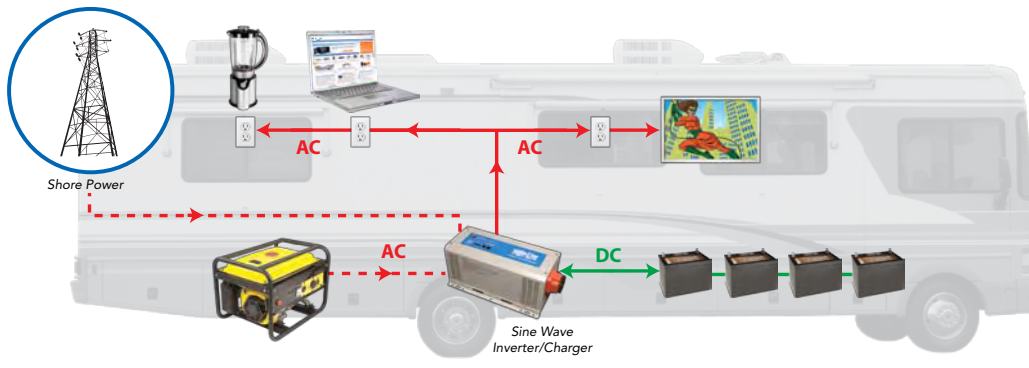
APS1012SW



APS2012SW

Provide Pure Sine Wave Power

PowerVerter APS Sine Wave Inverter/Chargers provide stable, microprocessor-controlled output with a pure sine wave. Sine wave power allows your equipment to run cooler, last longer and operate without the malfunctions and reduced performance caused by substandard power. Sine wave power also ensures maximum compatibility with sensitive electronics like computers, network devices and audio/video equipment. Many devices **require** sine wave power, including variable-speed power tools and computers with active PFC power supplies.



PowerVerter APS Sine Wave Inverter/Chargers produce sine wave output required by a wide range of devices for proper operation. Devices that require sine wave power include ATMs, energy-saving fluorescent and LED lights, fans, variable-speed power tools, digital clocks, laser printers, audio/video equipment and electronics with active PFC power supplies, including many computers and peripherals with ENERGY STAR® ratings. Consult the owner's manual or contact the manufacturer for more information about power requirements for your equipment.

Cleaner, Greener
Backup Power:
Better for You,
Your Equipment
and the Environment



Quiet, Fume-Free Operation

With no fumes, fuel or excess noise, Inverter/Chargers are better for applications where generators would be hazardous (such as indoors) or too loud (such as residential areas or outdoor areas during quiet hours).



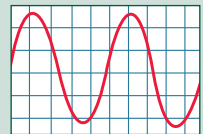
Fewer Trips to the Pump

Inverter/Chargers consume no fuel, drawing power from your AC source or battery system instead. Generators require frequent, costly trips to the pump. Inverter/Chargers also store power while your generator is running, allowing you to turn it off and save fuel without turning off your equipment.



More Reliable Power

Inverter/Chargers produce stable, microprocessor-controlled voltage and frequency. Generators can compromise the reliability of your equipment by producing unstable voltages, frequency variations and surges. Inverter/Chargers are ideal for backing up generators and conditioning generator output to protect your equipment.



Less Maintenance

Inverter/Chargers provide years of trouble-free operation without maintenance. Generators require frequent upkeep and parts replacement, increasing expense and inconvenience.



Inverters

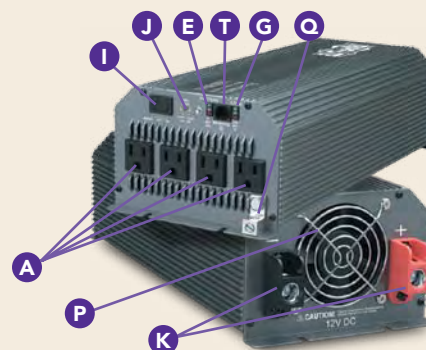


PV375

Similar Model: **PV150** (Single Outlet)



PV700HF



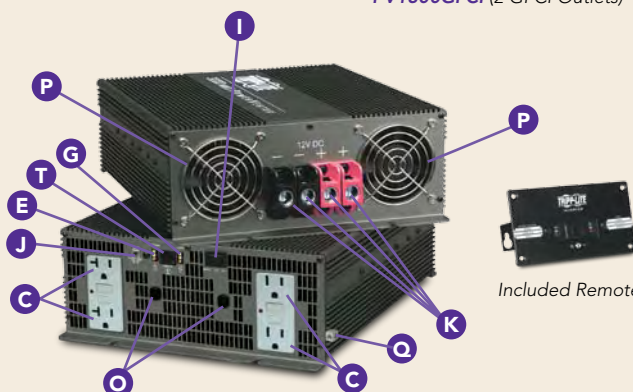
PV1800HF

Similar Models: **PV1000HF**,
PV1800GFCI (2 GFCI Outlets)



PV2000FC

Similar Models: **PV1250FC**, **PV2400FC**



PV3000GFCI

Similar Model: **PV3000HF** (Non-GFCI Outlets)

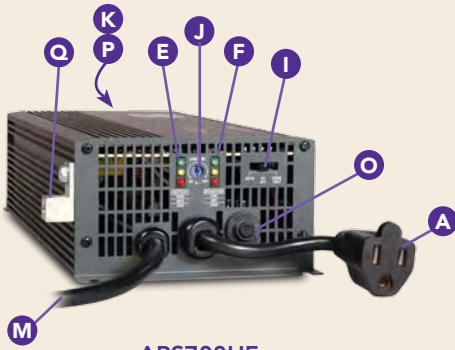
Included Remote

- A** AC Outlet(s)
- B** Hardwire AC Output Terminals
- C** GFCI AC Outlets
Meet OSHA requirements for GFCI to protect employees at work sites.
- D** Hospital-Grade AC Outlets
- E** Battery Level LEDs
Indicate the battery charge level.
- F** Operation LEDs
Indicate whether the Inverter/Charger is supplying power from an AC source or from battery. Also indicate overloads.
- G** Load LEDs
Indicate the load level.
(Inverters >700W only.)
- H** On/Off Switch
- I** Operating Mode Switch
"On, Off, Remote" for most Inverters.
"Auto/Remote, Off, Charge Only" for most Inverter/Chargers.
- J** Battery Conservation Dial
Adjusts the load level below which the unit shuts off to conserve battery power.
- K** DC Input Terminals
Connect to batteries with user-supplied cabling. (PV150 and PV375 have a cigarette lighter plug. EMS1250UL and HCRK-series have an Anderson quick connector.)
- L** Configuration DIP Switches
Customize settings for your application.
- M** AC Input Cord/Plug or Hardwire AC Input Terminals
(Inverter/Chargers only.)
- N** Hospital-Grade AC Input Plug
- O** Resettable Circuit Breaker(s)
(PV150 and PV375 have a replaceable fuse.)
- P** Cooling Fan(s)
- Q** Grounding Lug
- R** Pure Sine Wave Output
- S** Fast Transfer Time
Ensures that sensitive loads will not be dropped when switching from AC to battery. (APS2448UL, APS1012SW, APS2012SW and HCRK-series only.)
- T** Remote Control Jack
Connects to optional or included wired remote. (Remote included with PV3000HF, PV3000GFCI, APS3636VR, EMS1250UL, UT-series and HCRK-series.)
- U** Battery Temperature Sensor Jack
Enables temperature-compensated charging to increase battery lifespan.
- V** Remote Generator Controller
Automatically starts generator to keep batteries at an optimal charge level.
(Included with "RV" models >750W.)

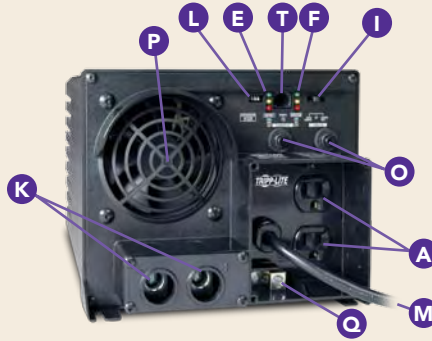
Additional Features Not Indicated:

- Low Battery Protection**
Automatically prevents excessive battery depletion/damage. (Included with all models.)
 - Overload Protection**
(Included with all models.)
 - Automatic Transfer Switch**
(Inverter/Chargers only.)
 - Durable Case**
Aluminum, steel and/or polycarbonate.
 - Mounting Feet/Flanges**
(Included with all models except PV150 and PV375.)
 - Automatic Voltage Regulation**
Corrects abnormal voltages without using battery power. (APS3636VR only.)
 - Ignition Interlock Jack**
Connects select models to vehicle's ignition switch. (PV1250FC, PV2000FC, RV750ULHW, RV1250ULHW, RV1512UL, MRV2012UL and EMS1250UL. Other models may support ignition interlock through optional APSRM4 wired remote.)
- Note: Similar models not shown may vary in appearance from models shown. For photos of models not shown, go to www.tripplite.com.*

Inverter/Chargers

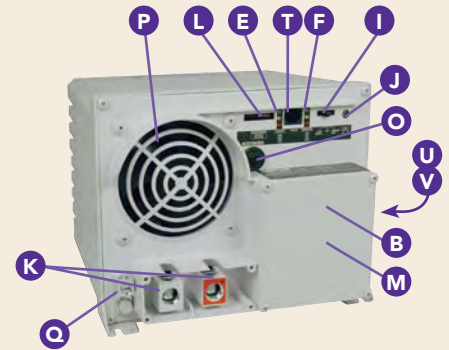


APS700HF



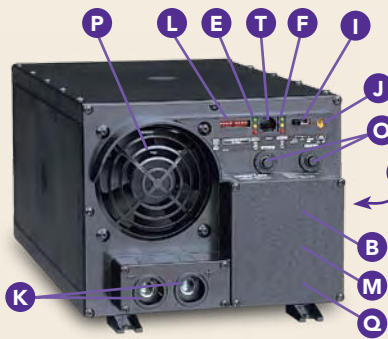
APS750

Similar Model: **APS1250**



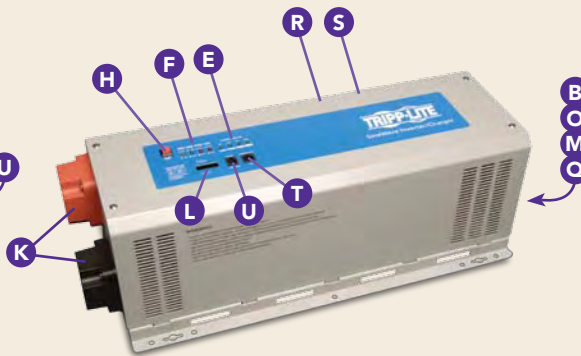
RV1250ULHW

Similar Models: **RV750ULHW, RV1012ULHW, RV1512UL**



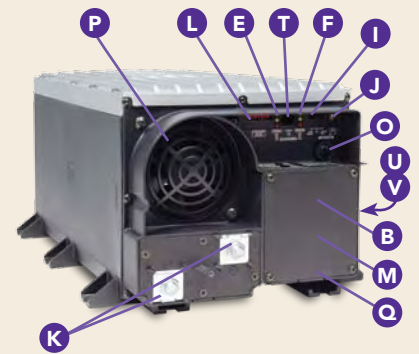
APS2012

Similar Models: **APS2424, APS2448UL (Fast Transfer Time), APS3636VR (AVR, Included Remote)**

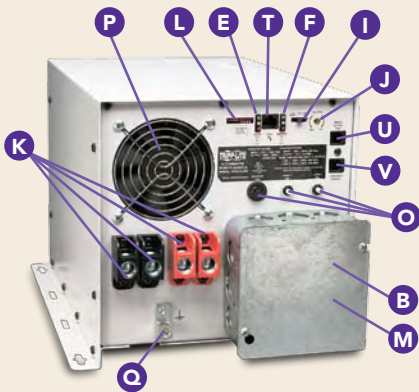


APS2012SW

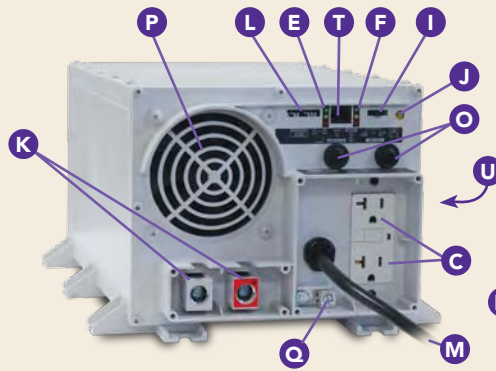
Similar Model: **APS1012SW**



MRV2012UL

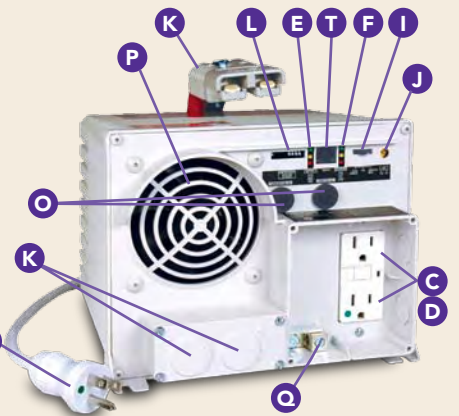


RV3012OEM

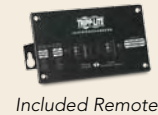


UT2012UL

Similar Models: **UT750UL, UT1250UL**



EMS1250UL



Included Remote



Included Remote



Included Battery and Remote



HCRK (90 Amp-Hour Battery)

Similar Models: **HCRK-36 (36 Amp-Hour Battery), HCRK-54 (54 Amp-Hour Battery)**

Inverter and Inverter/Charger Specifications

Model	Continuous Output Rating ⁽¹⁾	Peak Output Rating ⁽²⁾	AC Outlets	Nominal DC Voltage (Range)	Battery Charger Capacity	Typical Transfer Time ⁽⁵⁾	Primary Housing Material	Additional Features	Unit Dimensions (H x W x D) ⁽⁷⁾	Unit Weight
PowerVerter Portable Inverters (Compact inverters plug into your vehicle's cigarette lighter or accessory outlet to convert DC battery power to AC household current.)										
PV150	150W	300W	1	12V (10-15V)	–	–	Metal	Auto Plug, Compact/Portable	1.75x3.75x5.75 in.	1.3 lb
PV375	375W	600W	2	12V (10-15V)	–	–	Metal	Auto Plug, Compact/Portable	2x4.25x7 in.	2.3 lb
PowerVerter Permanent-Mount Inverters (Low-profile inverters mount to flat, stable surfaces.)										
PV700HF	700W	1,400W	3	12V (10-15V)	–	–	Metal	Low-Profile	2.75x5x11.75 in.	5.5 lb
PV1000HF	1,000W	2,000W	4	12V (10-15V)	–	–	Metal	Low-Profile	4.25x6x13 in.	6 lb
PV1800HF	1,800W	3,600W	4	12V (10-15V)	–	–	Metal	Low-Profile	4x6x15 in.	7.3 lb
PV3000HF	3,000W	6,000W	4	12V (10-15V)	–	–	Metal	Remote, Low-Profile	4x10.5x13.5 in.	13.2 lb
PowerVerter Permanent-Mount Inverters with GFCI (GFCI outlets protect against shock in wet or humid environments.)										
PV1800GFCI	1,800W	3,600W	2 (GFCI)	12V (10-15V)	–	–	Metal	GFCI, Low-Profile	4x6x15 in.	7.3 lb
PV3000GFCI	3,000W	6,000W	4 (GFCI)	12V (10-15V)	–	–	Metal	GFCI, Remote, Low-Profile	4x10.5x13.5 in.	13.2 lb
PowerVerter Plus Heavy-Duty Permanent-Mount Inverters (Support demanding inductive loads, such as motors, compressors and pumps.)										
PV1250FC	1,250W	2,500W	2	12V (10-15V)	–	–	Polycarbonate	Heavy-Duty ⁽⁶⁾	7x8.75x9 in.	23.2 lb
PV2000FC	2,000W	4,000W	2	12V (10-15V)	–	–	Metal/Poly	Heavy-Duty ⁽⁶⁾	7.25x8.5x16.25 in.	39 lb
PV2400FC	2,400W	4,800W	2	24V (20-30V)	–	–	Polycarbonate	Heavy-Duty ⁽⁶⁾	7.25x8.5x16.25 in.	39 lb
PowerVerter APS General-Purpose Inverter/Chargers (Heavy-duty models support demanding inductive loads, such as motors, compressors and pumps.)										
APS700HF	700W	1,400W	1	12V (10-15V)	6A	1 cycle	Metal	Low-Profile	2.75x5.5x12.75 in.	4 lb
APS750	750W	1,500W	2	12V (10-15V)	20A	1 cycle	Polycarbonate	Heavy-Duty ⁽⁶⁾	7x8.75x9 in.	17 lb
APS1250	1,250W	2,500W	2	12V (10-15V)	30A	1 cycle	Polycarbonate	Heavy-Duty ⁽⁶⁾	7x8.75x9 in.	23.2 lb
APS2012	2,000W	4,000W	Hardwire	12V (10-15V)	25 or 100A ⁽³⁾	1 cycle	Polycarbonate	Heavy-Duty ⁽⁶⁾	7.25x8.5x16.25 in.	40 lb
APS2424	2,400W	4,800W	Hardwire	24V (20-30V)	14 or 55A ⁽³⁾	1 cycle	Polycarbonate	Heavy-Duty ⁽⁶⁾	7.25x8.5x16.25 in.	39 lb
APS2448UL	2,400W	4,800W	Hardwire	48V (40-60V)	15A	½ cycle	Polycarbonate	Heavy-Duty ⁽⁶⁾ , Fast Transfer	7.25x8.5x16.75 in.	38.6 lb
APS3636VR	3,600W	7,200W	Hardwire	36V (30-45V)	30A	1 cycle	Polycarbonate	AVR, Remote, Heavy-Duty	7.25x8.5x16.25 in.	55.8 lb
PowerVerter APS Sine Wave Inverter/Chargers (Provide pure sine wave output.)										
APS1012SW	1,000W	2,000W	Hardwire	12V (10-15V)	4 to 40A ⁽⁴⁾	½ cycle	Metal	Sine Wave Output, Fast Transfer	7.25x7.5x18 in.	32.2 lb
APS2012SW	2,000W	4,000W	Hardwire	12V (10-15V)	6 to 60A ⁽⁴⁾	½ cycle	Metal	Sine Wave Output, Fast Transfer	7.25x7.5x22 in.	50.6 lb
PowerVerter APS RV/Camping Inverter/Chargers (Support demanding inductive loads, such as motors, compressors and pumps.)										
RV750ULHW	750W	1,500W	Hardwire	12V (10-15V)	11 or 45A ⁽³⁾	1 cycle	Polycarbonate	Heavy-Duty ⁽⁶⁾	7x8.75x9 in.	16 lb
RV1012ULHW	1,000W	2,000W	Hardwire	12V (10-15V)	14 or 55A ⁽³⁾	1 cycle	Polycarbonate	Heavy-Duty ⁽⁶⁾	7x10.5x16.25 in.	27 lb
RV1250ULHW	1,250W	2,500W	Hardwire	12V (10-15V)	14 or 55A ⁽³⁾	1 cycle	Polycarbonate	Heavy-Duty ⁽⁶⁾	7x8.75x9 in.	23.2 lb
RV1512UL	1,500W	3,000W	Hardwire	12V (10-15V)	19 or 75A ⁽³⁾	1 cycle	Polycarbonate	Heavy-Duty ⁽⁶⁾	8x10.5x17.5 in.	43.2 lb
MRV2012UL	2,000W	4,000W	Hardwire	12V (10-15V)	25 or 100A ⁽³⁾	1 cycle	Metal/Poly	Heavy-Duty ⁽⁶⁾	8x10.5x17.5 in.	43.2 lb
RV30120EM	3,000W	6,000W	Hardwire	12V (10-15V)	35 or 140A ⁽³⁾	1 cycle	Metal	Heavy-Duty ⁽⁶⁾	9.75x11.5x16.75 in.	62.6 lb
PowerVerter APS Utility Truck Inverter/Chargers (Support demanding inductive loads. GFCI plug and outlets protect against shock in wet or humid environments.)										
UT750UL	750W	1,500W	2 (GFCI)	12V (10-15V)	11 or 45A ⁽³⁾	1 cycle	Polycarbonate	GFCI, Remote, Heavy-Duty ⁽⁶⁾	7x8.75x9 in.	17.4 lb
UT1250UL	1,250W	2,500W	2 (GFCI)	12V (10-15V)	10 or 40A ⁽³⁾	1 cycle	Polycarbonate	GFCI, Remote, Heavy-Duty ⁽⁶⁾	7x8.75x9 in.	23.2 lb
UT2012UL	2,000W	4,000W	2 (GFCI)	12V (10-15V)	15 or 60A ⁽³⁾	1 cycle	Polycarbonate	GFCI, Remote, Heavy-Duty ⁽⁶⁾	7.25x8.5x16.25 in.	40.6 lb
PowerVerter APS Ambulance/EMS Inverter/Charger (Includes hospital-grade plug and outlets with GFCI. Supports demanding inductive loads.)										
EMS1250UL	1,250W	2,500W	2 (HG/GFCI)	12V (10-15V)	14 or 55A ⁽³⁾	1 cycle	Polycarbonate	GFCI, Remote, Heavy-Duty ⁽⁶⁾	7x8.75x9 in.	23.2 lb
Medical-Grade Inverter/Chargers (UL 60601-1 for use in patient care areas. Provide pure sine wave output. Include hospital-grade plug and outlets, power and battery modules, remote.)										
HCRK	300W	750W	3 (HG)	12V (10-15V)	10A	¼ cycle	Metal	UL 60601-1, Sine Wave Output, Isolation Transformer, Remote, Fast Transfer, USB Port	11.5x6x3.5 in. ⁽⁹⁾	14.1 lb ⁽⁹⁾
HCRK-36	300W	750W	3 (HG)	12V (10-15V)	10A	¼ cycle	Metal		11.5x6x3.5 in. ⁽⁹⁾	14.1 lb ⁽⁹⁾
HCRK-54	300W	750W	3 (HG)	12V (10-15V)	10A	¼ cycle	Metal		11.5x6x3.5 in. ⁽¹⁰⁾	14.1 lb ⁽¹⁰⁾
Inverter and Inverter/Charger Accessories										
APSRM4	Remote control module and 50 ft. cord for all Inverter/Charger and Inverter models >700W, except APS1012SW and APS2012SW.								1.25x4x2.25 in. ⁽¹¹⁾	0.4 lb
APSRMSW	Remote control module and 32 ft. cord for APS1012SW and APS2012SW only.								1x2x3.5 in.	0.2 lb
98-121	Maintenance-free battery (12V DC, 75 AH) for all Inverter/Charger models. (24V, 36V and 48V models require multiple batteries.)								9x7x10.25 in.	58 lb
BP-260	Metal battery case with cabling, connectors and terminal isolators for user installation. Holds up to two 98-121 batteries.								10.5x10.5x17.75 in.	13.5 lb

All models provide regulated 120V AC output. All Inverter/Charger models support nominal 120V AC input. APS700HF, APS750, APS1250, UT750UL, UT1250UL, UT2012UL, EMS1250UL, HCRK, HCRK-36 and HCRK-54 have an AC input cord and plug. Other Inverter/Charger models have hardwire AC input. Certifications vary with model. (1) Maximum output power available only when connected batteries are properly connected and charged. (2) Peak output level and duration varies with model, battery condition, charge level, ambient temperature and other factors. Heavy-duty models support up to 150% of continuous output for up to 1 hour and up to 200% of continuous output for up to 10 seconds. Peak output duration for other models is less. (3) User-selectable. (4) User-selectable range. (5) Typical transfer time from AC line power to battery-derived power during an outage. Most devices, including most computers and electronics, are compatible with a transfer time of 1 cycle or less. Some devices may require a transfer time of less than 1 cycle to ensure uninterrupted operation when the Inverter/Charger automatically switches from the AC source to battery power during a power failure. Contact the device manufacturer for more information. At 60Hz, 1 cycle ≈ 16.667 ms, ½ cycle ≈ 8.333 ms and ¼ cycle ≈ 4.167 ms. (6) Heavy-duty models support demanding inductive loads, such as motors, compressors and pumps. (7) Unit dimensions are rounded to the nearest ¼ inch. (8) Power module only. Included 90AH battery module is 14.5x8.5x7 in. / 61.5 lb. (9) Power module only. Included 36AH battery module is 10x8.75x6.5 in. / 21 lb. (10) Power module only. Included 54AH battery module is 10x8.75x6.5 in. / 39 lb. (11) Dimensions without faceplate. Faceplate dimensions are 3.75x5.75 in.

Distributed By:



Pulse Supply
909 Ridgebrook Road, Sparks, Maryland 21152, USA
TEL : +1-410-583-1701 FAX : +1-410-583-1704
E-mail: sales@pulsesupply.com
https://www.pulsesupply.com/tripp-lite

