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.

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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.

Need More Help?
Visit [www.tripplite.com/selectors](http://www.tripplite.com/selectors) to use Tripp Lite’s dynamic Inverter and Inverter/Charger Selector to choose the features you need and see matches instantly, including specifications, pricing and links to online resellers. You can also reach our dedicated technical support team by calling 773.869.1234 or sending e-mail to presaleshelp@tripplite.com.
DC-TO-AC INVERTERS

PowerVerter Inverters

- 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

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.

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.

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.

Go to www.triplite.com for the latest product and ordering information
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.

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.

Go to www.tripplite.com for the latest product and ordering information
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.

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.

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.

Sine Wave Inverter/Chargers

PowerVerter APS1012SW
PowerVerter APS2012SW

Sine Wave Inverter/Charger
Sine Wave Inverter/Charger

Shore Power
Utility Power
Renewable Energy Systems
Electrical Panel

Sine Wave Inverter/Charger

Sine Wave Inverter/Charger

Sine Wave Inverter/Charger

Sine Wave Inverter/Charger
Inverters

**AC Outlet(s)**
- Inverters: Available with various numbers of AC outlets, including 2, 3, or 6 outlets.

**Hardwire AC Output Terminals**
- Available for models requiring hardwiring.

**GFCI AC Outlets**
- Meets OSHA requirements for safety.

**Hospital-Grade AC Outlets**
- For medical applications requiring higher standards.

**Battery Level LEDs**
- Indicate the battery charge level.

**Operation LEDs**
- Indicate whether the Inverter/Charger is supplying power from an AC source or from battery.

**Load LEDs**
- Indicate the load level. (Inverters >700 W only)

**On/Off Switch**
- For control of power input/output.

**Operating Mode Switch**
- “On, Off, Remote” for most Inverters.
- “Auto/Remote, Off, Charge Only” for most Inverter/Chargers.

**Battery Conservation Dial**
- Adjusts the load level below which the unit shuts off to conserve battery power. (Inverters >700 W only)

**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)

**Configuration DIP Switches**
- Customize settings for your application.

**AC Input Cord/Plug or Hardwire AC Input Terminals**
- Available for Inverter/Chargers only.

**Hospital-Grade AC Input Plug**
- Available for select models.

**Resettable Circuit Breaker(s)**
- Available for PV150 and PV375.
- Includes replaceable fuse.

**Cooling Fan(s)**
- Ensure proper ventilation.

**Grounding Lug**
- Connects to ground for safety.

**Pure Sine Wave Output**
- Provides clean, stable power.

**Fast Transfer Time**
- Ensures that sensitive loads will not be dropped when switching from AC to battery. (APS2448UL, APS1012SW, APS2012SW have a replaceable fuse.)

**Remote Control Jack**
- Connects to optional or included wired remote. (Remote included with PV3000HF, PV3000GFCI, PV375GFCI, PV2000FC, APS3636VR, EMS1250UL, UT-series and HCRK-series)

**Battery Temperature Sensor Jack**
- Enables temperature-compensated charging to increase battery lifespan.

**Remote Generator Controller**
- Automatically starts generator to keep batteries at an optimal charge level. (Included with “RV” models >750 W)

**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, RV1500UL, RV1500UL, RV1512UL, RV1512UL, MRV2102UL 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.
FEATURE FOCUS

Inverter/Chargers

APS700HF

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

APS750
Similar Model: APS1250

Similar Models: RV750ULHW, RV1012ULHW, RV1512UL

APS2012

Similar Model: APS1012SW

APS2012SW

Similar Model: APS1012SW

MRV2012UL

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

RV1250ULHW

Similar Models: RV750ULHW, RV1012ULHW, RV1512UL

RV3012OEM

Similar Models: UT750UL, UT1250UL

UT2012UL
Included Remote

EMS1250UL
Included Remote

HCRK (90 Amp-Hour Battery)

Included Battery and Remote

Go to www.tripplite.com for additional product photos and ordering information
# Inverter and Inverter/Charger Specifications

## Inverter and Inverter/Charger Specifications

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<tr>
<th>Model</th>
<th>Continuous Output (W)</th>
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<th>Battery Capacity</th>
<th>Typical Transfer Time (sec)</th>
<th>Primary Housing Material</th>
<th>Additional Features</th>
<th>Unit Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>PV150</td>
<td>350 W</td>
<td>300 W</td>
<td>1</td>
<td>12V (10-15V)</td>
<td>Metal</td>
<td>Auto Plug, Compact,Portable</td>
<td>1.75x3.75x5.75 in.</td>
<td>1.3 lb</td>
<td></td>
</tr>
<tr>
<td>PV32S</td>
<td>375 W</td>
<td>800 W</td>
<td>2</td>
<td>12V (10-15V)</td>
<td>Metal</td>
<td>Auto Plug, Compact,Portable</td>
<td>2x4.25x7 in.</td>
<td>2.3 lb</td>
<td></td>
</tr>
<tr>
<td>P12GFC</td>
<td>2,500 W</td>
<td>3,000 W</td>
<td>2</td>
<td>12V (10-15V)</td>
<td>Metal</td>
<td>GFCI, Low-Profile</td>
<td>4x6x15 in.</td>
<td>7.3 lb</td>
<td></td>
</tr>
<tr>
<td>P12GFC</td>
<td>3,000 W</td>
<td>6,000 W</td>
<td>4</td>
<td>12V (10-15V)</td>
<td>Metal</td>
<td>Remote, Low-Profile</td>
<td>4x10.5x13.5 in.</td>
<td>12.2 lb</td>
<td></td>
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<tbody>
<tr>
<td>PV150</td>
<td>1,250 W</td>
<td>2,500 W</td>
<td>2</td>
<td>12V (10-15V)</td>
<td>Metal</td>
<td>GFCI, Low-Profile</td>
<td>4x6x15 in.</td>
<td>7.3 lb</td>
<td></td>
</tr>
<tr>
<td>P12GFC</td>
<td>3,000 W</td>
<td>6,000 W</td>
<td>4</td>
<td>12V (10-15V)</td>
<td>Metal</td>
<td>GFCI, Remote, Low-Profile</td>
<td>4x10.5x13.5 in.</td>
<td>12.2 lb</td>
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<tbody>
<tr>
<td>PS120</td>
<td>1,250 W</td>
<td>2,500 W</td>
<td>2</td>
<td>12V (10-15V)</td>
<td>Metal</td>
<td>GFCI, Low-Profile</td>
<td>4x6x15 in.</td>
<td>7.3 lb</td>
<td></td>
</tr>
<tr>
<td>P2400C</td>
<td>2,400 W</td>
<td>4,800 W</td>
<td>2</td>
<td>24V (20-30V)</td>
<td>Metal</td>
<td>GFCI, Heavy-Duty</td>
<td>7.25x8.5x16.25 in.</td>
<td>39 lb</td>
<td></td>
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<th>Additional Features</th>
<th>Unit Weight</th>
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</thead>
<tbody>
<tr>
<td>APS1012SW</td>
<td>1,000 W</td>
<td>2,000 W</td>
<td>2</td>
<td>12V (10-15V)</td>
<td>Metal</td>
<td>Sine Wave Output, Fast Transfer</td>
<td>7.25x7.5x18 in.</td>
<td>32.2 lb</td>
<td></td>
</tr>
<tr>
<td>APS2012SW</td>
<td>2,000 W</td>
<td>4,000 W</td>
<td>2</td>
<td>12V (10-15V)</td>
<td>Metal</td>
<td>Sine Wave Output, Fast Transfer</td>
<td>7.25x7.5x22 in.</td>
<td>50.6 lb</td>
<td></td>
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<th>Unit Weight</th>
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<tbody>
<tr>
<td>RV750ULH</td>
<td>750 W</td>
<td>1,500 W</td>
<td>1</td>
<td>12V (10-15V)</td>
<td>Metal</td>
<td>Heavy-Duty</td>
<td>7.8x7.5x9 in.</td>
<td>16 lb</td>
<td></td>
</tr>
<tr>
<td>RV1012ULWH</td>
<td>1,000 W</td>
<td>2,000 W</td>
<td>2</td>
<td>12V (10-15V)</td>
<td>Metal</td>
<td>Heavy-Duty</td>
<td>7.8x7.5x9 in.</td>
<td>17 lb</td>
<td></td>
</tr>
<tr>
<td>RV1250ULWH</td>
<td>1,250 W</td>
<td>2,500 W</td>
<td>2</td>
<td>12V (10-15V)</td>
<td>Metal</td>
<td>Heavy-Duty</td>
<td>7.8x7.5x9 in.</td>
<td>27 lb</td>
<td></td>
</tr>
<tr>
<td>RV1512UL</td>
<td>1,500 W</td>
<td>3,000 W</td>
<td>2</td>
<td>12V (10-15V)</td>
<td>Metal</td>
<td>Heavy-Duty</td>
<td>8x10.5x17.5 in.</td>
<td>43.2 lb</td>
<td></td>
</tr>
<tr>
<td>RV2012UL</td>
<td>2,000 W</td>
<td>4,000 W</td>
<td>2</td>
<td>12V (10-15V)</td>
<td>Metal</td>
<td>Heavy-Duty</td>
<td>8x10.5x17.5 in.</td>
<td>43.2 lb</td>
<td></td>
</tr>
<tr>
<td>RV3012OEM</td>
<td>3,000 W</td>
<td>6,000 W</td>
<td>2</td>
<td>12V (10-15V)</td>
<td>Metal</td>
<td>Heavy-Duty</td>
<td>9.75x11.5x17.75 in.</td>
<td>62.6 lb</td>
<td></td>
</tr>
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<tr>
<td>HCRK-36</td>
<td>300 W</td>
<td>750 W</td>
<td>3</td>
<td>12V (10-15V)</td>
<td>10A</td>
<td>¼ cycle Metal</td>
<td>UL 60601-1, Sine Wave Output,\ Isolation Transformer, Remote, Fast Transfer, USB Port</td>
<td>11.5x6.3x3.5 in.</td>
<td>14.1 lb</td>
</tr>
<tr>
<td>HCRK-36</td>
<td>300 W</td>
<td>750 W</td>
<td>3</td>
<td>12V (10-15V)</td>
<td>10A</td>
<td>¼ cycle Metal</td>
<td>11.5x6.3x3.5 in.</td>
<td>14.1 lb</td>
<td></td>
</tr>
<tr>
<td>HCRK-54</td>
<td>300 W</td>
<td>750 W</td>
<td>3</td>
<td>12V (10-15V)</td>
<td>10A</td>
<td>¼ cycle Metal</td>
<td>11.5x6.3x3.5 in.</td>
<td>14.1 lb</td>
<td></td>
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## Inverter and Inverter/Charger Accessories

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<th>Additional Features</th>
<th>Unit Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>APSRM4</td>
<td>Remote control module and 50 ft. cord for all Inverter/Charger models &gt;700W, except APS1012SW and APS2012SW</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>0.4 lb</td>
</tr>
<tr>
<td>APSRMSW</td>
<td>Remote control module and 32 ft. cord for all Inverter/Charger models &gt;700W, except APS1012SW and APS2012SW</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>0.2 lb</td>
</tr>
<tr>
<td>98-121</td>
<td>Maintenance-free battery (12V DC, 75 AH) for all Inverter/Charger models. (24V, 36V and 48V models require multiple batteries.)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>58 lb</td>
</tr>
<tr>
<td>BP-260</td>
<td>Metal battery case with cabling, connectors and terminal isolators for user installation. Holds up to two 98-121 batteries.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>10.5x10.5x17.75 in.</td>
</tr>
</tbody>
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All models provide regulated 120V AC output. All Inverter/Charger models support nominal 120V AC input. APS700HR, APS750, APS1250, UT75UL, UT125UL, UT212UL, EMGUS50L, HCRK, HCRK-36 and HCRK-54 have an AC input cord and plug. (Inverter/Charger models have hardware AC input). (A) Certifications vary with model. (1) Maximum output power available only when connected batteries are properly connected and charged. (B) 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. (B) Uninterruptible. (C) User-selectable range. (D) Typical transfer time from AC to DC as defined by the user. (E) All inverters/chargers have an AC input cord and plug. (F) Battery models 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. (H) Includes (1) cycle = 16.667 ms, (½) cycle = 8.333 ms and (¼) cycle = 4.167 ms. (J) Heavy-duty models support demanding inductive loads, such as motors, compressors and pumps. (H) Unit dimensions are rounded to the nearest ¼ inch. (I) Power module only. Included 90AH battery module is 14.5x5.8x5.7 in. / 61.3 lb. (J) Power module only. Included 36AH battery module is 10x5.75x6.5 in. / 21 lb. (K) Power module only. Included 54AH battery module is 10x6.75x6.5 in. / 39 lb. (I) Dimensions without faceplate. Faceplate dimensions are 3.75x4.75 in.