

# Model #: PV700HF

# PowerVerter Ultra-Compact Inverter - Portable Power for All Applications



### **Highlights**

700W continuous output; 1400W peak output (instantaneous)

Converts 12V DC (battery) power into 110-120V AC (household) power; 3 AC outlets

Installs in minutes (integrated mounting feet included)

Provides a quiet alternative to generator noise and fumes

Includes "battery saver" low voltage alarm/shutdown

# **Description**

Harness your vehicle's battery to efficiently power appliances, small electronics and office equipment on the road. Continuously supplies up to 700W of 120V AC power to 3 AC outlets from any 12V battery. Featuring an ultra-compact, lightweight design with metal housing, the PV700HF is among the smallest, most rugged inverters available.

#### Applications

Ideal for portable electronics, office equipment, RV and mobile appliances, video game and small entertainment systems, battery chargers, and more

#### Package Includes

PV700HF Ultra-Compact DC-to-AC Inverter Instruction manual with warranty information

#### **Features**

Provides 120V AC power for a variety of mobile applications

700W continuous output power; 1400W peak output power (instantaneous)

3 AC outlets

Ultra-compact extruded aluminum housing stands up to the toughest environments

Cooling fan lengthens inverter service life & maintains cool operation

Integrated mounting feet assure safe fixed installation

Low battery alarm/shutdown detects low battery voltage and shuts down inverter

Overload alarm/shutdown detects wattage overload on inverter outlets and shuts down inverter as a protective measure

DC input terminals provide a solid connection to battery with user-supplied cables

Lighted on/off switch shows inverter operations in cramped or dark environments

# **Specifications**

SYSTEM OVERVIEW	
Voltage compatibility	Compatible with 12V DC automotive or battery power sources

compatibility  Output watts  Output watts  700W (continuous)/1400W (peak)  Output nominal voitage militarians  Output rotage militarians  Output capacity (watts)  Pask output capacity (watts)  Set of 2 DC bott-down wiring terminals  Input corn length  User supplies cataling. Minimum gauges for full load operation 6 gauge or larger (see instruction manual)  Input corn length  Recommended  Output rotaleage for full load operation 6 gauge or larger (see instruction manual)  Input corn length  Recommended  Output corl length  Output (watts)  Output (w	Frequency	60 Hz
Output waits 700W (continuous)*1400W (peak) Output nominal 120V voitage	compatibility	00112
Output nominal voltage regulation    Maintains PWM sine wave output voltage of 115 V AC (+/-8 V AC)  Output frequency gallation    Output frequency   60 Hz (+/- 3 Hz)    squitation    The pass output capacity   (wats)    Input condition   Input c	OUTPUT	
Vortiage         Maintains PWM sine wave output voltage of 115 V AC (+/- 8 V AC)           Output voltage regulation         Maintains PWM sine wave output voltage of 115 V AC (+/- 8 V AC)           Output frequency regulation         60 Hz (+/- 3 Hz)           Output quantity / type         3 x NEMA 5-15R           Continuous output capacity (watts)         700           Peak output capacity (watts)         4400           Input connection type         Set of 2 DC belt down wiring terminals           Input connection type         Set of 2 DC belt down wiring terminals           Input connection type         Set of 2 DC belt down wiring terminals           Recommended         Description, Minimum gauges for full load operation: 6 gauge or larger (see instruction manual)           Recommended of decircal service         Requires 12V DC input source appals of delivering 80A for the required duration (when used at full capacity). For authority authority installation with 125A battery system blasing is recommended authority authority authority installation with 125A battery system blasing is recommended authority authority authority of the required duration (when used at full capacity). For authority authority authority authority of the required duration (when used at full capacity). For authority authority authority of the required further blasing is recommended.           Less Authority           Less Authority           Less Authority           Less Authority	Output watts	700W (continuous)/1400W (peak)
Output frequency grounding Output frequency grounding Outlet quantity / type 3 x NEMA 5-15R  Continuous output capacity (watts) INPUT Input connection type Input cord length User supplies cabling. Minimum gauges for full load operation: 6 gauge or larger (see instruction manual) Recommended Recquires 12V DC Input source capable of delivering 80A for the required duration (when used at full capacity). For automative applications, professional hardwire installation with 125A battery system fusing is recommended electrical service  ### Continuous load - 80A at 12V DC, No load - 0.95A at 12V DC, Shutdown - 150 micro amps  ### Automative applications, professional hardwire installation with 125A battery system fusing is recommended electrical service  ### DC system voltage  ### DU continuous load - 80A at 12V DC, No load - 0.95A at 12V DC, Shutdown - 150 micro amps  ### DC system voltage  ### DU supplications, professional hardwire installation with 125A battery system fusing is recommended of electrical service  ### DC system voltage  ### DU supplications, professional hardwire installation with 125A battery system fusing is recommended.  ### DC system voltage  ### DC system voltage  ### DU supplications, professional hardwire installation with 125A battery system fusing is recommended.  ### DC system voltage  ### DU system voltage of 10.5V or less  ### Switches  ### DU supplications alarm indicates overload conditions or low DC input voltage of 10.5V or less  ### Switches  ### DU supplications alarm indicates overload conditions or low DC input voltage of 10.5V or less  ### Switches  ### DU supplications alarm indicates overload conditions or low DC input voltage of 10.5V or less  ### Switches  ### DU supplications alarm indicates overload conditions or low DC input voltage of 10.5V or less  ### Switches  ### DU supplications alarm indicates overload conditions or low DC input voltage of 10.5V or less  ### Switches  ### DU	Output nominal voltage	120V
Outlet quantity / type   3 x NEMA 5-15R   Continuous output capacity (watts)   Peak output capacity (watts)   Input connection type   Input cond length	Output voltage regulation	Maintains PWM sine wave output voltage of 115 V AC (+/- 8 V AC)
Continuous output capacity (watts)  Peak output capacity (watts)  INPUT  Input connection type Input connectio	Output frequency regulation	60 Hz (+/- 3 Hz)
Peak output capacity (watas)  Peak output capacity (watas)  INPUT  Input connection type Input connection type Input cord length  User supplies cabling. Minimum gauges for full load operation: 6 gauge or larger (see instruction manual)  Recommended electrical service automotive applications, professional hardwire installation with 125A battery system fusing is recommended electrical service  BATTERY  DC system voltage  12V  LEDS ALARNS & SWIT—ES  Alarms  Dual-function alarm indicates overload conditions or low DC input voltage of 10.5V or less  Switches  Lighted on/off power switch  PHYSICAL  Shipping weight (lbs)  3.5  Shipping weight (kg)  1.6  Shipping Dimensions (HWD/Ini)  Unit Unique Shipping weight (lbs)  2.76 x 5 x 8.17  Unit Unitemisions (HWD/Ini)  Alarim (HWD/Ini)  T x 12.7 x 21  (HWD/Ini)  Alarim (HWD/Ini)  Alarim (HWD/Ini)  T x 12.7 x 21  (HWD/Ini)  Alarim (HWD/Ini)  T x 12.7 x 21  Alarim (HWD/Ini)  Alarim (HWD/Ini)  T x 12.7 x 21  Alarim (HWD/Ini)  Alarim (HWD/Ini)  T x 12.7 x 21  Alarim (HWD/Ini)  Alarim (HWD/Ini)  T x 12.7 x 21  Alarim (HWD/Ini)  Alarim (HWD/Ini)  Alarim (HWD/Ini)  T x 12.7 x 21  Alarim (HWD/Ini)	Outlet quantity / type	3 x NEMA 5-15R
INPUT   Imput cord length   Set of 2 DC bolt-down wiring terminals   Imput cord length   User supplies cabling. Minimum gauges for full load operation: 6 gauge or larger (see instruction manual)   Recommended electrical service   Requires 12V DC input source capable of delivering 80A for the required duration (when used at full capacity). For automotive applications, professional hardwire installation with 125A battery system fusing is recommended automotive applications, professional hardwire installation with 125A battery system fusing is recommended automotive applications, professional hardwire installation with 125A battery system fusing is recommended automotive applications, professional hardwire installation with 125A battery system fusing is recommended automotive applications, professional hardwire installation with 125A battery system fusing is recommended automotive applications, professional hardwire installation with 125A battery system fusing is recommended.    Batter	Continuous output capacity (watts)	700
Input connection type Input cord length User supplies cabling. Minimum gauges for full load operation: 6 gauge or larger (see instruction manual) Recommended electrical service Requires 12V DC input source capable of delivering 80A for the required duration (when used at full capacity). For automotive applications, professional hardwire installation with 126A battery system fusing is recommended Maximum input amps / watts Pull continuous load - 80A at 12V DC, No load - 0.95A at 12V DC, Shutdown - 150 micro amps  Destricts  BATTERY DC system voltage 12V LEDS ALARMS & SWITCHES Alarms Dual-function alarm indicates overload conditions or low DC input voltage of 10.5V or less  Switches Uighted on/off power switch PHYSICAL Shipping weight (lbs) 3.5 Shipping Dimensions (HWD/in) 4 x 6.25 x 10.25  Shipping Dimensions (HWD/in) Unit weight (kg) 1.26 Unit Dimensions (HWD/in) 7 x 12.7 x 21 (HWD/cm) Aluminum/sheet metal  Cooling method Fan  ENVIRONMENTAL Relative Humidity Product warranty Product warranty Product warranty Product warranty SPECIAL FEATURES  TYSS grounding Main grounding screw for connecting inverter to earth, vehicle, or boat grounding systems	Peak output capacity (watts)	1400
Input cord length  Recommended electrical service  Requires 12V DC input source capable of delivering 80A for the required duration (when used at full capacity). For automotive applications, professional hardwire installation with 125A battery system fusing is recommended automotive applications, professional hardwire installation with 125A battery system fusing is recommended.  Maximum input amps Full continuous load - 80A at 12V DC, No load - 0.95A at 12V DC, Shutdown - 150 micro amps (watts)  BATTERY  DC system voltage 12V LEDS ALARMS & SWITCHES  Alarms Dual-function alarm indicates overload conditions or low DC input voltage of 10.5V or less  Switches Lighted on/off power switch  PHYSICAL  Shipping Weight (lbs) 3.5  Shipping Dimensions (HWD/cm)  Shipping Dimensions (HWD/cm)  Unit weight (lbs) 2.8  Unit weight (lkg) 1.26  Unit Dimensions (HWD/cm)  Aluminum/sheet metal construction  Cooling method Fan  ENVIRONMENTAL  Relative Humidity 0.95% non-condensing  WARRANTY  Product warranty 1 year (outside the U.S. and Canada, call for warranty information)  SPECIAL FEATURES  TYSS grounding Main grounding screw for connecting inverter to earth, vehicle, or boat grounding systems	INPUT	
Recommended electrical service  Maximum input amps routed to continuous load - 80A at 12V DC, No load - 0.95A at 12V DC, Shutdown - 150 micro amps routed warts at 12V DC, No load - 0.95A at 12V DC, Shutdown - 150 micro amps routed battery system fusing is recommended  ### Public continuous load - 80A at 12V DC, No load - 0.95A at 12V DC, Shutdown - 150 micro amps routed battery system fusing is recommended  ### Public continuous load - 80A at 12V DC, No load - 0.95A at 12V DC, Shutdown - 150 micro amps routed battery system fusing is recommended  ### Public continuous load - 80A at 12V DC, No load - 0.95A at 12V DC, Shutdown - 150 micro amps recommended  ### Public continuous load - 80A at 12V DC, No load - 0.95A at 12V DC, Shutdown - 150 micro amps recommended  ### Public continuous load - 80A at 12V DC, No load - 0.95A at 12V DC, Shutdown - 150 micro amps recommended  ### Public continuous load - 80A at 12V DC, No load - 0.95A at 12V DC, Shutdown - 150 micro amps recommended  ### Public continuous load - 80A at 12V DC, No load - 0.95A at 12V DC, Shutdown - 150 micro amps recommended  ### Public continuous load - 80A at 12V DC, No load - 0.95A at 12V DC, Shutdown - 150 micro amps recommended  ### Public continuous load - 80A at 12V DC, No load - 0.95A at 12V DC, Shutdown - 150 micro amps recommended  ### Public continuous load - 80A at 12V DC, No load - 0.95A at 12V DC, Shutdown - 150 micro amps recommended  ### Public continuous load - 80A at 12V DC, No load - 0.95A at 12V DC, Shutdown - 150 micro amps recommended  ### Public continuous load - 80A at 12V DC, No load - 0.95A at 12V DC, Shutdown - 150 micro amps recommended  ### Public continuous load - 80A at 12V DC, No load - 0.95A at 12V DC, Shutdown - 150 micro amps recommended  ### Public continuous load - 80A at 12V DC, No load - 0.95A at 12V DC, Shutdown - 150 micro amps recommended  ### Public continuous load - 80A at 12V DC, No load - 0.95A at 12V DC, Shutdown - 150 micro amps recommendeded  ### Public continuous load - 80A at 12V DC, No load - 0.95A a	Input connection type	Set of 2 DC bolt-down wiring terminals
electrical service   autómotive applications, professional hardwire installation with 125A battery system fusing is recommended ' watts   BATTERY   12V   12	Input cord length	User supplies cabling. Minimum gauges for full load operation: 6 gauge or larger (see instruction manual)
Watts   BATTERY   DC system voltage   12V	Recommended electrical service	
DC system voltage   12V   LEDS ALARMS & SWITCHES   Alarms   Dual-function alarm indicates overload conditions or low DC input voltage of 10.5V or less   Switches   Lighted on/off power switch   PHYSICAL   Shipping weight (lbs)   3.5   Shipping Dimensions (HWD/m)   4 x 6.25 x 10.25   (HWD/m)   10.2 x 16 x 26   (HWD/m)   2.8   Unit weight (lbs)   2.8   Unit weight (kg)   1.26   Unit Dimensions (HWD/m)   7 x 12.7 x 21   Unit Dimensions (HWD/m)   Aluminum/sheet metal construction   Environmental   Environmental   Environmental   Relative Humidity   0-95% non-condensing   WARRANTY   Product warranty   1 year (outside the U.S. and Canada, call for warranty information)   SPECIAL FEATURES   TVSS grounding   Main grounding screw for connecting inverter to earth, vehicle, or boat grounding systems	Maximum input amps / watts	Full continuous load - 80A at 12V DC, No load - 0.95A at 12V DC, Shutdown - 150 micro amps
LEDS ALARMS & SWITCHES  Alarms Dual-function alarm indicates overload conditions or low DC input voltage of 10.5V or less  Switches Lighted on/off power switch  PHYSICAL  Shipping weight (lbs) 3.5  Shipping Dimensions (HWD/in) 4 x 6.25 x 10.25 (HWD/in) 10.2 x 16 x 26 (H	BATTERY	
Alarms Dual-function alarm indicates overload conditions or low DC input voltage of 10.5V or less  Switches Lighted on/off power switch  PHYSICAL  Shipping weight (lbs) 3.5  Shipping Dimensions (HWD/in) 4 x 6.25 x 10.25  (HWD/in) 10.2 x 16 x 26  Unit weight (lbs) 2.8  Unit weight (kg) 1.26  Unit Dimensions (HWD/cm) 2.76 x 5 x 8.17  (HWD/cm) Aluminum/sheet metal construction Fan ENVIRONMENTAL  Relative Humidity 0-95% non-condensing  WARRANTY  Product warranty 1 year (outside the U.S. and Canada, call for warranty information)  Special FEATURES  TVSS grounding Main grounding screw for connecting inverter to earth, vehicle, or boat grounding systems	DC system voltage	12V
Switches Lighted on/off power switch  PHYSICAL  Shipping weight (lbs) 3.5  Shipping Dimensions (HWD/in) 4 x 6.25 x 10.25  Shipping Dimensions (HWD/cm) 10.2 x 16 x 26  (HWD/cm) 2.8  Unit weight (lbs) 2.8  Unit Dimensions (HWD/in) 7 x 12.7 x 21  (HWD/cm) 7 x 12.7 x 21  (HWD/cm) Aluminum/sheet metal Cooling method Fan  ENVIRONMENTAL  Relative Humidity 0.95% non-condensing  WARRANTY  Product warranty 1 year (outside the U.S. and Canada, call for warranty information)  SPECIAL FEATURES  TVSS grounding Main grounding screw for connecting inverter to earth, vehicle, or boat grounding systems	LEDS ALARMS & SWIT	CHES
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Shipping Dimensions (HWD/in) 1.6  Shipping Dimensions (HWD/in) 10.2 x 16 x 26  Unit weight (lbs) 2.8  Unit weight (kg) 1.26  Unit Dimensions (HWD/cm) 7 x 12.7 x 21  Unit Dimensions (HWD/cm) 7 x 12.7 x 21  Material of construction Aluminum/sheet metal construction  Cooling method Fan  ENVIRONMENTAL Relative Humidity 0.95% non-condensing  WARRANTY  Product warranty 1 year (outside the U.S. and Canada, call for warranty information)  SPECIAL FEATURES  TVSS grounding Main grounding screw for connecting inverter to earth, vehicle, or boat grounding systems	PHYSICAL	
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Unit weight (lbs) 2.8  Unit weight (kg) 1.26  Unit Dimensions (HWD/in) 2.76 x 5 x 8.17  Unit Dimensions (HWD/cm) 7 x 12.7 x 21  Unit Dimensions (HWD/cm) Aluminum/sheet metal construction Fan  ENVIRONMENTAL  Relative Humidity 0-95% non-condensing  WARRANTY  Product warranty 1 year (outside the U.S. and Canada, call for warranty information)  SPECIAL FEATURES  TVSS grounding Main grounding screw for connecting inverter to earth, vehicle, or boat grounding systems	Shipping Dimensions (HWD/in)	4 x 6.25 x 10.25
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Unit Dimensions (HWD/in)  Unit Dimensions (HWD/cm)  Aluminum/sheet metal  Cooling method Fan  ENVIRONMENTAL  Relative Humidity  Product warranty  1 year (outside the U.S. and Canada, call for warranty information)  SPECIAL FEATURES  TVSS grounding  Main grounding screw for connecting inverter to earth, vehicle, or boat grounding systems	Unit weight (lbs)	2.8
Unit Dimensions (HWD/cm)  Material of construction  Cooling method Fan  ENVIRONMENTAL  Relative Humidity 0-95% non-condensing  WARRANTY  Product warranty 1 year (outside the U.S. and Canada, call for warranty information)  SPECIAL FEATURES  TVSS grounding Main grounding screw for connecting inverter to earth, vehicle, or boat grounding systems	Unit weight (kg)	1.26
Material of construction  Cooling method Fan  ENVIRONMENTAL  Relative Humidity 0-95% non-condensing  WARRANTY  Product warranty 1 year (outside the U.S. and Canada, call for warranty information)  SPECIAL FEATURES  TVSS grounding Main grounding screw for connecting inverter to earth, vehicle, or boat grounding systems	Unit Dimensions (HWD/in)	2.76 x 5 x 8.17
Cooling method Fan  ENVIRONMENTAL  Relative Humidity 0-95% non-condensing  WARRANTY  Product warranty 1 year (outside the U.S. and Canada, call for warranty information)  SPECIAL FEATURES  TVSS grounding Main grounding screw for connecting inverter to earth, vehicle, or boat grounding systems	Unit Dimensions (HWD/cm)	7 x 12.7 x 21
ENVIRONMENTAL  Relative Humidity 0-95% non-condensing  WARRANTY  Product warranty 1 year (outside the U.S. and Canada, call for warranty information)  SPECIAL FEATURES  TVSS grounding Main grounding screw for connecting inverter to earth, vehicle, or boat grounding systems	Material of construction	Aluminum/sheet metal
Relative Humidity  0-95% non-condensing  WARRANTY  Product warranty  1 year (outside the U.S. and Canada, call for warranty information)  SPECIAL FEATURES  TVSS grounding  Main grounding screw for connecting inverter to earth, vehicle, or boat grounding systems	Cooling method	Fan
WARRANTY  Product warranty 1 year (outside the U.S. and Canada, call for warranty information)  SPECIAL FEATURES  TVSS grounding Main grounding screw for connecting inverter to earth, vehicle, or boat grounding systems	ENVIRONMENTAL	
Product warranty  1 year (outside the U.S. and Canada, call for warranty information)  SPECIAL FEATURES  TVSS grounding  Main grounding screw for connecting inverter to earth, vehicle, or boat grounding systems	Relative Humidity	0-95% non-condensing
SPECIAL FEATURES  TVSS grounding  Main grounding screw for connecting inverter to earth, vehicle, or boat grounding systems	WARRANTY	
TVSS grounding  Main grounding screw for connecting inverter to earth, vehicle, or boat grounding systems	Product warranty	1 year (outside the U.S. and Canada, call for warranty information)
	SPECIAL FEATURES	
Appearance Attractive metallic gray color scheme	TVSS grounding	Main grounding screw for connecting inverter to earth, vehicle, or boat grounding systems
	Appearance	Attractive metallic gray color scheme