



# PORTABLE POWER SUPPLY COMPARISON GUIDE

For Warehouses, Manufacturing and Distribution Centers

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# PROS

# CONS



**“GEEKS ARE PEOPLE WHO LOVE SOMETHING SO MUCH THAT ALL THE DETAILS MATTER”**

- MARISSA MEYER - YAHOO.COM

## 1. ABOUT THIS GUIDE

You may be well aware of advances in technology which have already changed how warehouses, manufacturing plants, distribution centers and large retail stores operate.

Research and comparisons are important prior to making purchasing decisions. When time is short, serious research is often put off which causes decisions to be delayed.

To help you to avoid delays and save time, we are providing our research on portable power supply options. This guide is not designed to be technical, though it provides a few technical specs. We have portable power supply geeks on the team who can't help but share what they know.

This guide will first consider who might benefit and how the comparisons were chosen. We have created a table of portable power supply

options which is not an all inclusive list but can still save you hours of research.

Following the comparison tables, you will find a glossary of terms and descriptions to help you understand various types of equipment.

Our mission at Newcastle Systems is to provide the best portable power supply options and methods for improving efficiencies and profits in the industry.

We're available to answer your questions via e-mail at [customerservice@newcastlesys.com](mailto:customerservice@newcastlesys.com) or by phone: **781-935-3450**. You may also find in-depth product information, case studies, white papers and more on our website at [www.newcastlesys.com](http://www.newcastlesys.com)



As you review the guide, you may be pleasantly surprised and inspired by new ideas.



Please reach out to us via e-mail, social media or a phone call. Share with us your thoughts and ideas so that we may have the opportunity to better meet your needs.

We are first and foremost a manufacturing company with an obsession for customer service and rely heavily on you for information about what matters.

## 2. WHO WILL BENEFIT

At the hub of every organization are decision makers. There is no hard rule as to which roles they play. A key manager who works with their team on the warehouse floor may be held responsible for productivity results. This guide is for them.

This guide is for anyone leading a team which is wasting time and money walking back and forth.

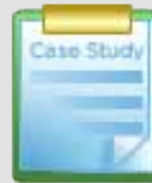
This is a guide for the CEO who finds it difficult to get an answer from his hard working team because they have not kept up with new technology.



For the CFO who is required to report on profitability line by line, this is for you. Portable power supplies will have others referring to you as a genius.

## 3. HOW WE COMPARED PORTABLE POWER SUPPLIES

Portable power supplies are known by many names and can be used anywhere power is needed, such as curb side to power sidewalk sales, mountainside to power professional photo sessions or inside to power various warehouse functions. The priority in our research was to think “portable”. A portable power supply is movable whether it be with handles, wheels or a cart.



**SEE HOW CUSTOMERS & RESELLERS USE OUR MOBILE WORKSTATION SYSTEMS**

*ACCESS THE CASE STUDY LIBRARY* ►

We broadened the search to include short term back-up supplies, emergency power and portable power supplies perfect for warehouse operations or order picking carts.

Our search was performed with your perspective in mind - that of a customer and decision maker. The objective is to provide information you can confirm, which included the Internet, company databases and traditional phone books. With a little digging and persistence, we uncovered the treasures of portable power.

In the comparison table, you may see a blank or an “unknown”. In most cases, we did not find the data essential to operations.






Included are two of Newcastle Systems' popular portable power systems. The new Ultra Series is lighter and smaller for those very tight spaces.

## NEW LIGHTWEIGHT POWERPACK ULTRA SERIES

QUIET, CORDLESS AC POWER - ANYWHERE YOU NEED IT! CHECK IT OUT ►








## 4. THE COMPARISON TABLES - GROUP 1

Company	Newcastle Systems	Jaco Inc.	Uptime Business Products	Nature Power	Xantrex
Model	<a href="#">PowerPack Mega Series</a>	<a href="#">L500 Power System</a>	<a href="#">Lithium Secondary Battery</a>	<a href="#">Solar Home &amp; RV Portable Backup Power Kit</a>	<a href="#">Xantrex XPower Portable Powerpack 1500</a>
Image					
Approx. Run-Time	12+ hrs	12.5 hrs @ 40 Watt Load	10 to 15 hrs	90 hrs Back-up	9 hrs to 27 hrs
Approx. Charge Time	3 to 5 hrs	4 hrs	6 to 7 hrs	12 to 24 hrs	24 hrs
Number of Outlets	6	4	4	4	2
AC Volts	115 Volts AC	120 Volts AC		120 Volts AC	120 Volts AC
Watts	1,000	250	300	1,400	1,500

Company	Newcastle Systems	Jaco Inc.	Uptime Business Products	Nature Power	Xantrex
Model	<a href="#">PowerPack Mega Series</a>	<a href="#">L500 Power System</a>	<a href="#">Lithium Secondary Battery</a>	<a href="#">Solar Home &amp; RV Portable Backup Power Kit</a>	<a href="#">Xantrex XPower Portable Powerpack 1500</a>
Image					
Typical Use	Desktop PC, Large Printer, Laptops, Any Industry	Medical Carts	Laptops, Mobile Devices	Home Electronics	Home Electronics
Approximate Price	\$1,995.00	Unavailable	Unavailable	\$999.99	\$650.00
Requires Fuel	No	No	No	No	No
Battery	100 Ah	Unknown	Unknown	60Ah	60 Ah
# of Batteries	2	1	Unknown	1	1
Type	Sealed Lead Acid	Lithium Iron Phosphate	Lithium Ion	Sealed Lead Acid	Sealed Lead Acid
Inverter/Charger	Yes	No	No	Yes	Yes
Wave Form Output	Modified Sine Wave	AC Sine Wave	Unknown	Modified Sine Wave	Modified Sine Wave
DC Power output		50 volts DC	5V (USB), 12V, 16V, 19V, 24V		12
USB Outputs	No	No	Yes	No	No
A/C Frequency	60 Hz	Unknown	Unknown	Unknown	60 Hz
Smart Charger	Yes	Separate Unit		Yes	Yes

Company	Newcastle Systems	Jaco Inc.	Uptime Business Products	Nature Power	Xantrex
Model	<a href="#">PowerPack Mega Series</a>	<a href="#">L500 Power System</a>	<a href="#">Lithium Secondary Battery</a>	<a href="#">Solar Home &amp; RV Portable Backup Power Kit</a>	<a href="#">Xantrex XPower Portable Powerpack 1500</a>
Image					
Charging Amps	20 Amps	Unknown	Unknown	5 Amps	5 Amps
Automatic Charger Shut-off	Yes	Unknown	Unknown	Unknown	Yes
UL Approved	Yes	Yes			Yes
CSA Approved	Yes				Yes
Approx. Weight	160 lbs	5.5 lbs Per Battery	6 lbs Per Battery	83 lbs	60 lbs
Dimensions LxWxH	20" x 21" x 14"		10.63" x 7.09" x 1.57"	19 1/2" x 15 3/4" x 19"	15.8" x 11.9" x 14.8"
Indoor	Yes	Yes	Yes	Yes	Yes
Outdoor	Yes, Under Cover	No	No	Yes, Under Cover	Yes, Under Cover
Digital Meter	Yes	Yes			
LED Displays	Yes	Yes	Yes	Yes	Yes
Battery Status Meter	Yes	Yes	Yes	Yes	Yes
Power Source Confirmation Indicator	Yes	Yes	Yes		
Visual Low Voltage Alert	Yes	Yes	Yes		Yes
Audio Low Voltage Alert	Yes		Yes		Yes
Integrated Handle(s)	Yes	Yes	No	No	Yes

Company	Newcastle Systems	Jaco Inc.	Uptime Business Products	Nature Power	Xantrex
Model	<a href="#">PowerPack Mega Series</a>	<a href="#">L500 Power System</a>	<a href="#">Lithium Secondary Battery</a>	<a href="#">Solar Home &amp; RV Portable Backup Power Kit</a>	<a href="#">Xantrex XPower Portable Powerpack 1500</a>
Image					
Optional Wheel-base Tote System	Yes	n/a	n/a		Yes
Optional Bracket System to Secure Unit to a Cart, Vehicle, or Other Surfaces	Yes				
Operating Temperature	32 F to 120 F				
Power input	12 Volts			12 Volts	12 Volts
Warranty	6 Months	3 Year	1 Year	Unknown	1 Year



## 5. THE COMPARISON TABLES - GROUP 2

Company	Newcastle Systems	OES Optimized Energy Storage	Generac	Duracell	APC
Model	<a href="#">Lightweight PowerPack Ultra Series</a>	<a href="#">Baby Genny</a>	<a href="#">iX800 Generator</a>	<a href="#">852-1807 Powersource 1800</a>	<a href="#">Smart-UPS® 2200VA &amp; Serial 120V</a>
Image					
Approx. Run-Time	6 to 8 hrs	Emergency - Backup Power	3.6 hrs	1.5 to 4 hrs	6.7 to 200 minutes
Approx. Charge Time	6 hrs	3.5 hrs	n/a	12 hrs	3 hrs
Number of Outlets	1	2	2	5	10
AC Volts	115 Volts AC	115 Volts AC	120 Volts AC	120 Volts AC	120 Volts AC
Watts	150	160	800	1440	1980
Typical Use	Laptop, Small Barcode Printer, Any Industry	Emergency - Backup Power	Back-up Home Appliances	Emergency Power	Emergency Back-up Office
Approximate Price	\$399.00	\$1,295.00	\$378.90	\$469.99	\$796.99
Requires Fuel	No	No	Yes	No	No
Battery	18 Ah	Unknown	0	17 Ah	Unknown
# of batteries	1	1	None - Gas Operated	3	Unknown
Type	Sealed Lead Acid	Lithium Ferrous Phosphate	Gas Generator	AGM Sealed Lead Acid	Sealed Lead-Acid

Company	Newcastle Systems	OES Optimized Energy Storage	Generac	Duracell	APC
Model	<a href="#">Lightweight PowerPack Ultra Series</a>	<a href="#">Baby Genny</a>	<a href="#">iX800 Generator</a>	<a href="#">852-1807 Powersource 1800</a>	<a href="#">Smart-UPS® 2200VA &amp; Serial 120V</a>
Image					
Inverter/Charger	Yes	Yes	Yes	Yes	No
Wave Form Output	Modified Sine Wave	Unknown	Unknown	Sine Wave	Sine wave
DC Power output		12			
USB Outputs	No	Yes	No	No	No
A/C Frequency	60 Hz	Unknown	60 Hz	60 Hz	57 - 63 Hz
Smart Charger	Yes				
Charging Amps	Unknown	Unknown	Unknown	Unknown	Unknown
Automatic Charger Shut-off	Yes	Unknown	Yes	Unknown	Yes
UL Approved	Yes	Yes			Yes
CSA Approved	Yes				Yes
Approx. Weight	24 lbs	5.5 lbs	29 lbs	58.2 lbs	112 lbs
Dimensions LxWxH	10" x 9" x 8.75"	8.8" x 4" x 7.2"	18" x 10" x 15"	19" x 28" x 10 5/16"	21.4" x 7.72" x 17"
Indoor	Yes	Yes	No	Yes	

Company	Newcastle Systems	OES Optimized Energy Storage	Generac	Duracell	APC
Model	<a href="#">Lightweight PowerPack Ultra Series</a>	<a href="#">Baby Genny</a>	<a href="#">iX800 Generator</a>	<a href="#">852-1807 Powersource 1800</a>	<a href="#">Smart-UPS® 2200VA &amp; Serial 120V</a>
Image					
Outdoor	Yes, Under Cover	Yes	Yes	No	
Digital Meter	Yes				
LED Displays	Yes	Yes	Yes	Yes	Yes
Battery Status Meter	Yes			Yes	Yes
Power Source Confirmation Indicator	Yes			Yes	Yes
Visual Low Voltage Alert	Yes			Yes	Yes
Audio Low Voltage Alert	Yes		n/a	Yes	Yes
Integrated Handle(s)	Yes		Yes		
Optional Wheel-base Tote System	n/a				
Optional Bracket System to Secure Unit to a Cart, Vehicle, or Other Surfaces					
Operating Temperature	32 F to 120 F			32 F to 104 F	32 F to 104 F
Power Input	12 volts	12 volts		12 volts	120 volts
Warranty	6 months	Unknown	2 year	1 year	2 years

## THE POWER TO MOVE YOUR WORKPLACE



### ABOUT NEWCASTLE SYSTEMS

Newcastle Systems is committed to providing innovative solutions that help make Auto-ID technology and other hardware truly mobile and information more readily available across an entire enterprise.

Loss of productivity and inefficiencies such as wasted steps to the printer on a fixed desk, inaccurate inventory counts, improper labeling, time delays, manual processing and incorrect shipments are just some of the challenges that are alleviated with a mobile powered workstation.