

ENERGY-PLUS™

THE ULTIMATE POWER SOURCE



When your operation depends on a heavy-duty battery – a battery that can stand up and deliver even under the most demanding applications – you can depend on the power of ENERGY-PLUS™.



THE RIGHT POWER SOLUTION

Want to increase your productivity with less change outs? If so, you need to determine which power solution option is right for you: (1) buy more standard capacity batteries, or (2) buy high-energy batteries.

In order to make that decision, first you must understand your needs or existing battery problems. Ask yourself these questions:

- Do your current batteries have trouble lasting a full shift?
- Do you experience short battery life?
- Do you expect your duty cycle to become more demanding?
- Do your trucks operate in high-demand applications?
- Are your trucks required to make long runs and high lifts?
- Do your trucks operate with attachments that demand added power?
- Do you require at least five years of trouble-free power?

If you answered “yes” to any or all of these questions, then a high-energy battery might be the right solution to meet your needs. And not just any high-energy battery, but the ENERGY-PLUS™ battery by HAWKER®. What’s the difference you ask?

	High-Energy ENERGY-PLUS™ (12 - E600)	Standard POWERLINE™ (12 - 85F - 13)
Specific Gravity	1320	1285
Battery Weight	1032	972
AH Capacity	600 (+17.6%)	510
KWH Capacity	14.16 (+19.2%)	11.88
# of Plates Per Cell	15*	13
Application	Heavy	Medium/Heavy

*ENERGY-PLUS™ offers (11-23 plate jar size) – two extra plates (25-33 plate jar size) – four extra plates

POWER BY DESIGN

All high-energy batteries are not created equal!

Some battery manufacturers of high-energy batteries use only an increase in specific gravity of the electrolyte to achieve more power.

The ENERGY-PLUS™ battery by HAWKER®, on the other hand, employs a unique multi-plate design to pack more active material – and more power – into the same space.

The ENERGY-PLUS™ battery’s key to delivering both more power AND longer life is maintaining a proper balance of active material and electrolyte. Unlike other “high-energy” batteries that rely solely upon higher gravity electrolyte to deliver higher output, ENERGY-PLUS™ uses additional full-size plates in a balanced electrolyte to produce higher sustained voltages and longer run times – without sacrificing longevity. This advanced multi-plate design means your batteries provide ultimate power for a longer time.

When you compare the lead/acid ratio between high-energy batteries and its standard counterpart, the proof is in the numbers. Take a look at the ENERGY-PLUS™ high-energy battery vs. the POWERLINE™ standard battery in the table to the left.

POWER ON DEMAND

ENERGY-PLUS™ is specifically designed to stand up and deliver in the most demanding environments. For trucks that are operating in high-demand applications, making long runs and high lifts, and using attachments that require added power, ENERGY-PLUS™ is the battery that can keep them moving faster and working longer.

Let's take a closer look at the ENERGY-PLUS™ battery's construction and added benefits:

Longer Work Cycles: ENERGY-PLUS™ has a higher sustained voltage than any other battery in the industry.

Lower Operating Costs: The ENERGY-PLUS™ battery offers extended run time. Less change outs mean a reduction in spare batteries and chargers. And fewer batteries mean less watering maintenance, fewer batteries to charge, and less room required for battery storage space.

Longer Battery Life: ENERGY-PLUS™ is designed with a balance of active material and acid volumes for higher energy AND longer battery life. The ENERGY-PLUS™ battery maintains an estimated cycle life of 1,500-2,000 cycles, based on one cycle per day and 80% DoD.

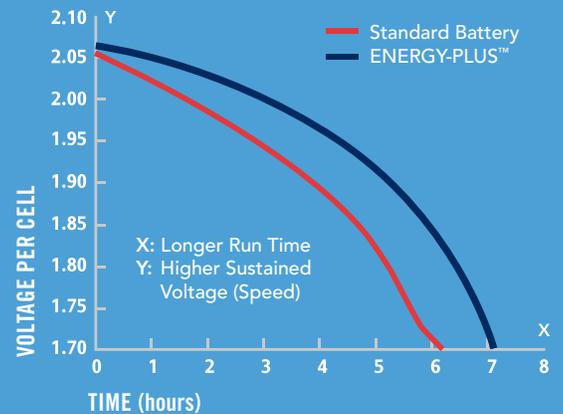
Up to 20% More Energy: ENERGY-PLUS™ delivers more power than conventional batteries without an increase in tray size.

SINGLE SHIFT VS. MULTI-SHIFT USER

	SINGLE SHIFT USER	MULTI SHIFT USER
Batteries	1 - 1000 AH (800 Usable)	2 - 1000 AH (800 Usable)
Chargers	1	1
AMP Hours Discharged	900 AH	1800 AH (900 Per Shift)
Solution	2 Batteries or 1 ENERGY-PLUS™ (1125 AH - 900 Usable)	3 Batteries or 2 ENERGY-PLUS™ (1125 AH - 900 Usable)

ENERGY-PLUS™ VS. STANDARD BATTERY

ENERGY-PLUS™ provides up to 20% more energy than standard batteries.



ENERGY-PLUS™ is the choice for sustained power, even during long periods of operation.

For the right HAWKER® power system solution to meet your needs, please call 1-877-7HAWKER for a HAWKER® representative in your area.



With more than 85 years of motive power experience and innovation, HAWKER® offers a complete line of battery and charger motive power solutions. HAWKER® power solutions are designed to reduce environmental impact, lower operational costs, increase productivity, and improve customer operations.

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EPB.3/18.1.5.CM.Rev.15