

ENERGY-PLUS[™]

The Ultimate Power Source



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

The Right Power Solution

Want to increase your productivity with less down time and 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 harsh conditions?
- 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?



ENERGY-PLUS™ – The Ultimate Power Source

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?

Power by Design

All high-energy batteries are not created equal!

Some battery manufacturers of high-energy batteries use an increase in specific gravity 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 acid 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:

	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 (9-23 plate jar size) - two extra plates (25-33 plate jar size) - four extra plates		

Power on Demand

ENERGY-PLUS™ is specifically designed to stand up and deliver in the most demanding environments. For trucks that are operating in harsh conditions, 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.



	Single Shift User	Multi-Shift User
Batteries	1 - 1000 AH (800 Useable)	2 - 1000 AH (800 Useable)
Chargers	1	1
AMP Draw	875 AH	1800 AH (900 Per Shift)
Solution	2 Batteries or 1 ENERGY-PLUS™ (1125 AH - 900 Useable)	3 Batteries or 2 ENERGY-PLUS™ (1125 AH - 900 Useable)

Added Benefits

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

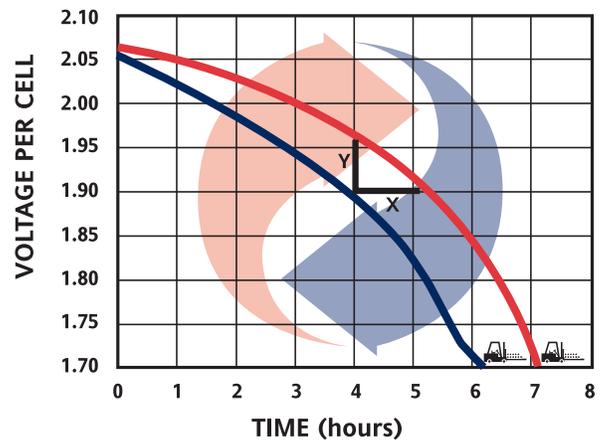
- **Up to 25% More Energy** – ENERGY-PLUS™ delivers more power than conventional batteries without an increase in tray size.
Added benefit: Allows trucks to operate longer per shift.
- **Longer Work Cycles** – ENERGY-PLUS™ has a higher sustained voltage than any other battery in the industry. **Added benefit:** Your trucks move faster, work longer without recharging and experience less motor wear caused by excessive amp draw.
- **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 1500-2000 cycles, based on one cycle per day and 80% DOD. **Added benefit:** Longer life means less expense.
- **Lower Operating Costs** - The ENERGY-PLUS™ battery offers an extended running time. Less change outs mean a reduction in spare batteries and chargers. And fewer batteries mean less water, fewer batteries to charge and less room required for battery storage space. **Added benefit:** A reduction in total ownership costs because of higher productivity and the need for fewer batteries.
- **Applications** - The heavy-duty ENERGY-PLUS™ battery can be used in even the most punishing conditions. ENERGY-PLUS™ batteries are an excellent option for rapid or high-speed charging applications.
Added benefit: Power that can stand up and deliver when you need it most.

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

ENERGY-PLUS™ VS. STANDARD BATTERY

X = LONGER RUN TIME
Y = HIGHER SUSTAINED VOLTAGE (SPEED)

— STANDARD BATTERY
— ENERGY-PLUS™



ENERGY-PLUS™ provides up to 25% more energy than standard batteries.





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