

# EVd-40 Power Tester

The **EVd-40 Power Tester** provides recyclers with the ability to **quickly test and categorize** incoming batteries, enabling informed decisions about which modules should be shredded and which can be resold, reconditioned, or repurposed for second-life applications.



## THE PROBLEM: Shredding by Default

- **Current practice:** Many recycling operations shred 100% of incoming modules.
  - **Consequence:** Functional batteries with strong state of health are destroyed, even though they could yield far higher value through resale or reuse.
- FOR EXAMPLE:**
- A **NiMH module** shredded for scrap may bring only **\$3–4 gross**, often less than **\$2 net** after logistics and processing costs.
  - The same module, if tested and found in good condition, can resell for **\$20–45**.

## THE SOLUTION: Triage with the EVd-40

The **EVd-40 Power Tester** enables recyclers to:

- Rapidly **assess battery health** at the module or pack level.
- **Segregate reusable modules** from those that should be shredded.
- **Unlock new revenue streams** by reselling or reconditioning viable modules.
- Support **second-life markets** (stationary storage, lower-demand EVs, industrial use).

## ROI Analysis: Shredding vs. Reuse

Metric	Shredding	Resale/Reuse	Value Difference
NiMH Module Weight	~2 lbs (0.9 kg)	~2 lbs (0.9 kg)	—
Typical Value per Module	\$3–4 gross (\$<2 net)	\$20–45	5×–20× higher
ROI Impact	Low, often negative after fees	+400% to +1,900% uplift	Major margin gain

**Key takeaway:** A module worth only a few dollars when shredded can deliver **10× or more** when triaged and resold. At scale, this value difference translates into significant revenue growth for recyclers who implement triage testing.

The default approach of shredding all incoming EV/HEV batteries leaves money on the table and undermines sustainability goals. By deploying the **EVd-40 Power Tester**, recyclers can capture the full value of reusable modules, realize **ROI improvements of 400%–1,900%**, and expand into lucrative second-life markets.

**The EVd-40 transforms battery recycling from a cost-center into a profit engine.**