

ENERDEL

Allison Approved 21.0 kWh Drop-in Replacement Battery For The H40/H50 Hybrid Bus



North America

In service since 2014, with 30+ transit authorities, EnerDel's packs are a rugged and trusted power source for hard working buses.



2,000+
Packs Sold



7,000,000
Miles Traveled



50
States

Proven Safety and Reliability

EnerDel's battery packs are designed to meet the challenging power and energy requirements of demanding hybrid bus applications.



www.enerdel.com




3619 W 73rd St, Anderson, IN 46011

Allison Transmission Approved Part SIL-20-EO-15EN

The EnerDel 21.0 kWh drop in battery is designed to outperform and outlast the H40/50 6.2kWh OEM battery. It provides transit companies with a high performance and long-lasting battery solution.



Features and Benefits

- **Federal Transit Administration (FTA) Buy America compliant** 
- 3x the life expectancy of an OEM battery
- 3-year standard warranty extendable to 8 years
- Easy to install—Direct drop in replacement pack
- Easy plug and play software integration
- Installation and technical service training available
- Quick ship lead times
- NMC chemistry for higher energy density and longer life

How to Purchase



joel.knight@enerdel.com



+1 (317) 703-1853

Battery Specifications

Parameter	Units	Value	Notes
Pack Energy			
Rated Energy	kWh	21.0	Calculated value based on rated cell capacity
Minimum Available Energy	kWh	18.7	Calculated value based on de-rated cell capacity
Discharge Power			
Typical (continuous)	kW	52.6	At nominal cell voltage
Max (continuous)	kW	105.1	At nominal cell voltage
Peak (5s Pulse)	kW	230	At nominal cell voltage, less than 5 second duration
Charge Power			
Typical (continuous)	kW	52.6	At nominal cell voltage
Discharge Current			
Typical (continuous)	A	80.0	Between 15% and 100% SOC
Max (continuous)	A	160.0	Between 15% and 100% SOC
Peak (5s Pulse)	A	350.0	Between 30% and 100% SOC
Charge Current			
Typical (continuous)	A	80.0	Between 0% and 80% SOC
Max (continuous)	A	160.0	Between 0% and 80% SOC
	A	350.0	Between 0% and 70% SOC
Pack Voltage			
Max	V	738	Determined at Max. Cell Voltage
Nom	V	657	Determined at Nom. Cell Voltage @50% SOC
Min	V	450	Determined at Min. Cell Voltage
Cell Voltage			
Max	V	4.1	At 100% SOC
Nom	V	3.65	
Min	V	2.5	At 0% SOC
Cell Capacity			
Rat	Ah	16.0	From cell specification
Pack Capacity (BOL)			
Minimum Available Capacity	Ah	28.5	Estimated when C/3 rate is used to determine capacity; Current taper applied at the end of charge
Pack Capacity (EOL)			
Minimum Available Capacity	Ah	19.9	Estimated at 70% of minimum available capacity
Operating Temperature			
Normal	°C	-15 to 45	Range (min/max)
Max	°C	55	Current limited above normal operating temperature
Min	°C	-25	Current limited below normal operating temperature
Other Properties			
Pack shelf Life	Years	5	At 30% SOC
Storage Temperature	°C	-40 to 55	Range (min/max)
Pre-charge	Type	Internal	(See Section 10. 1. 6)
GFD	n/a	Enabled	HV Impedance Diagnostics (See Section 10. 1. 10)
EPO	n/a	N/A	System uses HVIL — EPO internal connection
Mass	Kg	439 +/- 1%	

Service

We strive to ensure our customers standards are exceeded throughout the entire service process.

- Quick ship inventory
- Installation & Service training and support
- Battery Diagnostic software & tools provided


Warranty

We design and build solutions to outperform and outlast the competition.


- 3-year standard warranty
- Warranty extension up to 8 years




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