

LVPU

Low Voltage Power Unit

The Lithium-Ion **Low Voltage Power Unit (LVPU)** is a compact smart battery solution for heavy transit applications, delivering up to 100Ah at a nominal 25.6V while integrating multiple monitoring, control, and protection features detailed below. Designed for reliability, safety, and efficient operation, it lasts up to four times longer than standard lead-acid batteries while reducing weight by a factor of four.

The LVPU includes a basic display that can show SoC, faults, general status, and other key operating information. It supports J1939 CAN communication, real-time Ethernet access, and onboard data logging. Integrated self-heating improves cold-weather readiness, while optional liquid cooling supports demanding climates. Configurable load shedding, fault reset controls, and protection against overvoltage, overcurrent, and temperature extremes help maintain dependable operation.

A fully sealed enclosure protects components from debris and harsh environments, making the LVPU a safe, durable choice for transit vehicles.



HIGHLIGHTS

- Compact 100Ah, 25.6V power unit
- Basic display for SoC, faults, general status, and more
- J1939 CAN, Ethernet access, and onboard data logging
- Integrated self-heating with optional liquid cooling
- Configurable load shedding and fault reset controls
- Sealed enclosure for durability in harsh environments
- Safety design based on ISO 26262 standards

OVERALL DIMENSIONS

Length 10.80” x Height 9.44” x Depth 19.80”

MODELS & FEATURES

Part Number	LVPU24B1M-60F1	LVPU24B1M-100F1
Nominal Voltage	25.6 V	25.6 V
Nominal Capacity	60 Ah	100 Ah
Max Cont. Discharge	1C	1C
Peak Current (< 30s)*	2C	2.5C
Low Voltage Disconnect	1	1

*For SoC higher than 30% and temperature at 25°C