

# GENASUN™

## Lightweight Lithium Iron Phosphate (LiFePO<sub>4</sub> - LFP) Battery Systems



## Lithium Battery Packs with Complete Battery Management System (CBMS)

### Dual-Controller CBMS provides:

*Proprietary on-the-fly cell balancing  
Overload, over-Charge, and over-Discharge protection  
High and Low Temperature protection  
Continuous power if either bank damaged (water, short-circuit, etc.)*

### Significant Weight Savings:

*50% less weight than lead batteries, 75% less weight for same useable AH capacity*

### Long Cycle Life:

*Lithium Cells rated for >2000 cycles at 80% discharge depth, >3000 cycles at 70% discharge depth*

### Fast, Efficient Charging:

*99+% efficient Ah in vs. Ah out; No Absorption/Acceptance phase necessary*

### Safe Chemistry:

*Extremely stable Lithium-Iron-Phosphate chemistry eliminates thermal-runaway*

**- Made in USA - 2 Year Warranty - Proven Record in Racing and Cruising: 150,000+ Offshore Miles-**

**Genasun LLC**

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## System Prices

Battery Systems include preassembled batteries (battery racks, covers, cell interconnects, etc.), and Complete Battery Management System (CBMS). House battery systems are composed of two completely redundant banks, and capacities listed are that of each bank, half the total.

12V & 24V House Battery Banks	Complete System Weight	Price, USD
2x 100Ah, 12V, Low Current, 15A max	30kg	\$4,800.00
2x 100Ah, 12V	31kg	\$5,500.00
2x 180Ah, 12V	56kg	\$7,700.00
2x 360Ah, 12V	103kg	\$14,000.00
2x 100Ah, 24V	59kg	\$10,000.00
2x 180Ah, 24V	103kg	\$14,000.00
2x 360Ah, 24V	203kg	\$27,000.00

48V Propulsion Battery Banks	Complete System Weight	Price, USD
100Ah, 48V	58kg	\$10,000.00
180Ah, 48V	102kg	\$14,000.00
360Ah, 48V	202kg	\$27,000.00

## Additional System Components

Product	Description	Weight	Price, USD
GV-4-Li-14.2V	4A MPPT Solar Charge Controller for 12V	80g	\$110.00
GV-10-Li-14.2V	10.5A MPPT Solar Charge Controller for 12V	185g	\$170.00
GVB24-8-Li-28.4V	MPPT Boost Solar Charge Controller, charges 24V battery from 12V nominal solar panel	185g	\$280.00
GVB48-8-Li-56.8V	MPPT Boost Solar Charge Controller, charges 48V battery from 12V-36V nominal solar panel	185g	\$320.00
GVX-25-Li-14.2V	25A MPPT Solar Charge Controller w/display, 12V	1.3kg	\$600.00*
GVX-25-Li-28.4V	25A MPPT Solar Charge Controller w/display, 24V	1.3kg	\$600.00*
GVX-25-Li-56.8V	25A MPPT Solar Charge Controller w/display, 48V	1.3kg	\$700.00*
AR1-14.2V	Alternator Regulator for 12V Lithium System	185g	\$400.00
AR1-28.4V	Alternator Regulator for 24V Lithium System	185g	\$400.00

\*Discounted price, valid only when purchased with Genasun battery system.

### Consulting:

Genasun can provide consulting to determine the best possible battery and charging configuration for your needs. Programming & configuration of inverters and chargers for Genasun batteries is also available.

### Warranty:

Genasun solar charge controllers carry a limited lifetime warranty on materials and workmanship. Genasun batteries and battery management systems (BMS) carry a two-year warranty on materials and workmanship. Genasun's warranty does not cover damage due to abuse, operation beyond the rated specifications, or use without a properly installed and configured battery management system (BMS). An on-site system inspection by a Genasun technician or representative is required to activate the warranty on batteries and battery management systems (not required for the 2x100Ah 12V low-current system). Installation is not included. Normal decrease in battery capacity resulting from use is not covered under this warranty.

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