



BATTERY SPECIFICATION SHEET



Enduro Power Baja Series 12V 300Ah Deep Cycle LiFePO4 Battery

EN300BAJA

Product Specifications

Basic Electrical Specification

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|---------------------|------------------------|
| Nominal Voltage | 12.8 V |
| Nominal Capacity | 300 Ah |
| Energy | 3840 Wh |
| Resistance | ≤0.5mΩ |
| Efficiency | 99% |
| Self Discharge | ≤3% per month |
| Parallel Connection | 6+ (call us if over 6) |
| Series Connection | 24, 36, 48V |

Charge Specification

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|----------------------------|---|
| Recommended Charge Current | 30 A - 125A |
| Maximum Charge Current | 250 A |
| Recommended Charge Voltage | 14.6 V |
| BMS Charge Voltage Cut-Off | 14.8 V (3.9 ±0.025 vpc) (1.1 ±0.4 s) |
| Reconnect Voltage | 14.2 V (3.8 ±0.05 vpc) |
| Balancing Voltage | 13.6 V (3.6 ±0.025 vpc) |

Discharge Specification

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|--------------------------------------|---------------------------------------|
| Maximum Continuous Discharge Current | 250 A |
| Peak Discharge Current | 400 A (3-5s) |
| BMS Discharge Current Cut-Off | 750 A (150ms) |
| Recommended Low Voltage Disconnect | 10.5 V |
| BMS Discharge Voltage Cut-Off | 9.4 V (2.0 ±0.08 vpc) (140 ±60 ms) |
| Reconnect Voltage | 10.2 V (2.3 ±0.1 vpc) |
| Short Circuit Protection | 200-300 μs |

Temperature Specification

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|--|-----------------------------|
| Discharge Temperature | -4 to 130 °F (-20 to 55 °C) |
| Charge Temperature | 32 to 130 °F (0 to 55 °C) |
| Storage Temperature - 1 month | -4 to 113 °F (-20 to 45 °C) |
| Storage Temperature - 1 year | 32 to 95 °F (0 to 35 °C) |
| BMS High Temperature Cut-Off | 176 °F (80 °C) |
| Reconnect Temperature | 122 °F (50 °C) |
| BMS Low Temperature Cut-Off (Charging) | 32 °F (0 °C) |
| Reconnect Temperature (Charging) | 41 °F (5 °C) |

BMS Overview

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|-----------------------------|-----|
| Over Current Protection | yes |
| Under Voltage Protection | yes |
| Over Voltage Protection | yes |
| Overload Protection | yes |
| High Temperature Protection | yes |
| Low Temperature Protection | yes |
| Short Circuit Protection | yes |

Certifications

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|----------------------------------|------------------------------|
| MSDS Datasheet | MSDS |
| UN38.3 | DG61 |
| CE Certification | EN61000-6-1, EN61000-6-3 |
| ROHS Certification | ROHS |
| FCC Certification | Part15B |
| IEC62619 documentation or 49 CFR | IEC62619 / 49 CFR 173.185 |
| IMDG Code | UN3840 / Class 9 |

Mechanical Specifications

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|------------------------|--|
| Dimensions (L x W x H) | 20.53 x 10.6 x 8.69" (521 x 269 x 221 mm) |
| Weight | 65 lbs (30 kg) |
| Terminal Type | M8 (22mm) |
| Terminal Torque | 10 ~12 N-m |
| Case Material | ABS |
| Enclosure Protection | IP65 |
| Cell Type - Chemistry | Prismatic - LiFePO4 |

