

12V 334Ah

ESSENTIAL SERIES

LiFePO4 BATTERY

MODEL

12334A-MC

Heated Lithium | Bluetooth | Active Balancing

12.8V NOMINAL

33.4Ah CAPACITY

4.28kWh ENERGY

600A PEAK

IP21 RATED

VOLTAGE CLASS

12V

PARALLEL EXPANSION

Max 16

WARRANTY

11 Year



PRODUCT HIGHLIGHTS



11 YEAR

WARRANTY



4500+

CYCLES



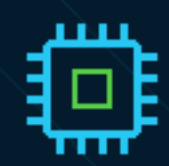
BLUETOOTH

APP



INTERNAL

HEATING



ADVANCED

BMS



2A ACTIVE

BALANCING



MAX 16

PARALLEL



SAFE

LIFEPO4

Quick Specifications

High-priority specifications and LiFePO4 product features, reorganized for fast scanning.

ELECTRICAL & SYSTEM	
Model	12334A-MC
Series	Essential Series
Battery Type	Deep cycle
Chemistry	LiFePO4
Cell Type	Prismatic
Cell Config.	4S1P
Voltage Class	12V
Nominal Voltage	12.8V
Capacity	334Ah
Energy Stored	4.28kWh
Operating Range	10.0V - 14.6V
Max Charge V	14.6V
Bluetooth	iOS / Android apps
Self-Heating	Yes
Active Balancing	Yes, 2A

CHARGE SETTINGS	
Max Cont. Charge	300A max
Bulk/Absorption	14.2V - 14.4V
Absorption End	<= C/20 or 15 min max
Float Voltage	Disabled preferred or 13.3V - 13.6V
Re-bulk	13.2V
Temp Comp	0mV/C / None
Equalization	Disabled
Batt. Charge Temp	0C to 55C / 32F to 131F
BMS High Cutoff	14.6V
SoC Recal.	14.6V

INSTALL NOTE

Confirm lithium charger profile, cabling, terminal torque, parallel wiring, and temperature limits before installation.

DISCHARGE & TEMPERATURE	
Max Cont. Disch.	300A; 150A recommended
Peak Disch. 10s	600A
Max Charge Current	300A max
Parallel Connect.	Max 16 in Parallel
Plug & Play	Parallel capable
Discharge Temp	-20C to 60C / -4F to 140F
Charge Temp	-20C to 55C / -4F to 131F with heating
Storage Temp	0C to 35C / 32F to 95F
Low-temp Charge	Protection enabled

MECHANICAL & CONNECTIONS	
Dimensions	15.35 x 8.07 x 11.02 in
Weight	75 lb / 34.0 kg
Case Material	Metal
Enclosure	IP21 drip resistant
Terminal Type	M10 Female
Victron Comms	Yes
Bluetooth	iOS / Android apps
Active Balance	2A cell balancing

CHARGER NOTE

Use lithium-compatible charging equipment. Verify charger, converter, alternator, DC-to-DC charger, and solar controller settings before installation.

BMS PROTECTIONS	
Smart BMS	Built-in management
Overcharge	Protected
Over-discharge	Protected
Over-current	Protected
Short Circuit	Protected
High Temp	Disconnect protection
Low Temp	Disconnect protection
Low-temp Charge	Charge protection
Bluetooth	iOS / Android apps
Maintenance	Maintenance-free

COMPLIANCE	
Cell Cert.	UL 1642 cells
Thermal Runaway	UL 9540A cells
Battery Cert.	IEC 62619:2022
Compliance	CE, RoHS
Shipping	UN 38.3, Class 9
Warranty	11 Year Manufacturer

LIFEPO4 FEATURES & SUPPORT	
Cycle / Service Life	4500+ cycles; stable output
Internal Heating	Sub-zero charging support
Bluetooth Monitoring	iOS / Android apps
Active Balancing	2A automatic cell balancing
Victron Comms	Plug-and-play data network
Parallel Expansion	Max 16 batteries
Peak Output	600A @ 10 sec
Safety Chemistry	Stable LiFePO4 chemistry
IP21 Enclosure	Indoor / drip resistant
Support	US based technical support