E-LI Blue 300Ah

EURONET E-LI BLUE BATTERY – 12.8V 300Ah

12.8V LiFePO4 Battery Module | Built-in Intelligent BMS



NOMINAL VOLTAGE	12.8V
CAPACITY	300Ah
ENERGY	3.84kWh
MAX DISCHARGE	150A
CYCLE LIFE	6000 @ 80% DoD
DESIGN LIFE	>10 years

OVERVIEW

The EURONET E-LI Blue 300Ah is a 12.8V lithium iron phosphate (LiFePO4) battery module storing 3.84kWh (3840Wh), designed for large residential solar storage, UPS and heavy backup loads. LiFePO4 prismatic cells in an aluminium shell are managed by a built-in intelligent BMS that monitors voltage, current and temperature with passive cell balancing. It delivers up to 150A maximum discharge (75A recommended) and charges at 14.0V–14.4V using CC-CV. It is the highest single-module capacity in the 12.8V range. With over 6000 cycles at 80% DoD and a design life exceeding 10 years, it is a maintenance-free drop-in replacement for traditional lead-acid batteries.

KEY FEATURES

100% LiFePO4 Cells
Prismatic LiFePO4 cells in an aluminium shell for high energy density, low resistance and long service life

Built-in Intelligent BMS
Monitors voltage, current and temperature throughout operation, with passive cell balancing at 200mA

3.84kWh Energy Storage
3840Wh, the largest module in the series, with 150A discharge for large residential solar storage

Wide Temperature Range
Discharge rated from -20°C to +55°C and charge rated from 0°C to +50°C for reliable year-round operation

High Capacity Efficiency
≥99.5% capacity efficiency, with CC-CV charging at 14.0V–14.4V and a 10.8V discharge cut-off voltage

Maintenance-Free Operation
Over 6000 cycles at 80% DoD and a design life of more than 10 years, with no scheduled maintenance

TECHNICAL NOTE

12.8V / 300Ah / 3840Wh. Output voltage range 10.8V–14.6V, cut-off 10.8V. Max discharge 150A (recommended 75A). Charging voltage 14.0V–14.4V, CC-CV, max charge 150A (recommended 75A). Capacity efficiency ≥99.5%. BMS: over-charge >3.85V/cell, over-discharge <2.3V/cell, passive 200mA balancing, over-current trip >750A. Weight 27.5kg, 420×216×338mm.

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E-LI Blue 300Ah

PRODUCT TECHNICAL SPECIFICATIONS

PARAMETER	SPECIFICATIONS
GENERAL	
Model	E-LI Blue 300Ah
Battery Type	Lithium iron phosphate (LiFePO4)
Cell Format	Prismatic cells · aluminium shell
Nominal Voltage	12.8V
Rated Capacity	300Ah
Rated Energy	3.84kWh (3840Wh)
Applications	Large residential solar storage, UPS and heavy backup loads
ELECTRICAL	
Output Voltage Range	10.8V–14.6V
Discharge Cut-off Voltage	10.8V
Charging Voltage	14.0V–14.4V
Charging Method	CC-CV
Max Discharge Current	150A
Recommended Discharge Current	75A
Max Charge Current	150A
Recommended Charge Current	75A
Capacity Efficiency	≥99.5%
PHYSICAL	
Weight	27.5kg
Dimensions	420×216×338mm
Maintenance	Maintenance-free drop-in lead-acid replacement

PARAMETER	SPECIFICATIONS
BMS PROTECTION	
Battery Management	Built-in intelligent BMS
Monitoring	Voltage, current and temperature
Over-charge Protection	>3.85V/cell
Over-discharge Protection	<2.3V/cell
Over-current Trip	>750A
Cell Balancing	Passive, 200mA
ENVIRONMENT	
Charge Temperature	0°C to +50°C
Discharge Temperature	-20°C to +55°C
Storage Temperature	-20°C to +50°C
Humidity	5%–95% RH
SERVICE LIFE	
Cycle Life	6000 cycles @ 80% DoD
Design Life	>10 years
CERTIFICATION	
IP Rating	Not available
Certifications	Not available

**Specifications are subject to change without prior notice.*

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