

RESIDENTIAL ENERGY STORAGE

EURONET LiFePO₄ BATTERY

51.2V 314Ah • 16.08kWh

Model: E-NEO314/51.2V-IP65

The EURONET E-NEO314/51.2V-IP65 is a floor-standing 51.2V LiFePO₄ battery designed for residential energy storage systems. It stores 16.08kWh (314Ah) of energy and delivers up to 10.0kW of maximum discharge power, working with a hybrid inverter to store excess solar energy for use in the evening and at night.

A built-in Battery Management System keeps the battery operating within its design limits, while CAN / RS485 communication links it to the inverter. WiFi connectivity through the Smart Energy PLAT app lets users monitor battery status and performance from a smartphone. Capacity can be expanded by connecting up to 8 battery packs of the same batch and specification in parallel.

**LiFePO₄****IP65****CE / CB****UN38.3****16.08 kWh**

314Ah at 51.2V nominal

**10.0 kW**

Maximum discharge power

**8 Parallel**

Expand capacity with identical units

**Smart BMS**

Triple hardware protection

**IP65**

Metal enclosure, floor standing

**WiFi + CAN/RS485**

App monitoring & inverter communication

ELECTRICAL

ITEM	VALUE
Battery Type	LiFePO4
Nominal Voltage	51.2 Vdc
Voltage Range	48 – 56 Vdc
Rated Capacity	314 Ah
Total Energy	16.08 kWh
Max. Discharge Power	10.0 kW
Design Cycle Life	8000 Cycles

BATTERY MANAGEMENT SYSTEM

ITEM	VALUE
Protection Mode	Triple Hardware Protection
Battery Protection	Over-Current / Over-Voltage / Short Circuit / Under-Voltage / Over-Temperature
Communication	CAN / RS485
Wireless Monitoring	WiFi (IEEE 802.11 b/g/n, 2.4 GHz) via Smart Energy PLAT app
Display	LCD
Parallel Support (Max.)	8 Parallel

ENVIRONMENTAL

ITEM	VALUE
Charge Operating Temperature	-10 ~ 70 °C
Discharge Operating Temperature	-20 ~ 70 °C
Optimal Operating Temperature	15 ~ 30 °C
Relative Humidity	0 ~ 95% RH (No condensed water)
Altitude	≤ 2000 m
IP Rating	IP65
Recommended Installation	Indoor
Cooling Type	Ambient Cooling

MECHANICAL

ITEM	VALUE
Dimensions (W × D × H)	564 × 156 × 960 mm
Case Material	Metal
Installation Method	Floor Standing
Protective Class	I

CERTIFICATION & TRANSPORT

ITEM	VALUE
Certificates	CE / CB
Transport	UN38.3 (Tested); UN3480 as applicable

INSTALLATION REQUIREMENTS

ITEM	VALUE
DC Breaker (Battery-Inverter)	Min. rating over 200 A, or as per local regulations
Grounding Cable (Single Unit)	4 mm ² yellow-green, M4 stud, 1.0 N·m
Grounding Cable (Parallel, per Battery)	6 mm ² yellow-green
Clearance	≥ 20 mm horizontal gap from walls / equipment

PACKAGE CONTENTS

ITEM	VALUE
Battery	× 1
Output Cable (1500 mm)	× 2
Communication Cable (2000 mm)	× 1
Grounding Cable (2000 mm)	× 1
Wall Mount Bracket	× 2
Expansion Screw	× 2
User Manual	× 1

Testing conditions based on temperature 25 °C at the beginning of life.

Total energy / usable energy measured under specific conditions from 0.2C CC / CV.

Only batteries of the same batch and specification should be connected in parallel. Installation should be carried out by a qualified electrician.

Support: contact@euronet.co