E-NEO314/51.2V-IP65

EURONET IP65 LITHIUM BATTERY – 51.2V 314Ah

Residential Energy Storage | LiFePO4 | IP65



TOTAL ENERGY	RATED CAPACITY
16.08kWh	314Ah
MAX DISCHARGE POWER	**DESIGN CYCLE LIFE**
10.0kW	8000 cycles
IP RATING	**MAX PARALLEL UNITS**
IP65	8

OVERVIEW

The EURONET E-NEO314/51.2V-IP65 is a floor-standing 51.2V LiFePO4 battery for residential energy storage. It stores 16.08kWh (314Ah) and delivers up to 10.0kW of discharge power, working with a hybrid inverter to store excess solar energy for use in the evening and at night. A smart BMS with triple hardware protection keeps the battery within its design limits, CAN / RS485 links it to the inverter, and Wi-Fi through the Smart Energy PLAT app shows battery status on a smartphone. The IP65 metal enclosure suits utility rooms, garages and humid indoor spaces, and up to 8 identical units can be connected in parallel.

KEY FEATURES

IP65 Metal Enclosure
Sealed against dust and water for utility rooms, garages and humid indoor spaces, floor-standing

16.08kWh Energy Storage
314Ah at 51.2V nominal, with up to 10.0kW of maximum discharge power for evening and night use

Smart BMS
Triple hardware protection against over-current, over-voltage, short circuit and over-temperature

Wi-Fi App Monitoring
Wi-Fi (2.4GHz) via the Smart Energy PLAT app shows battery status and performance on your phone

CAN / RS485 Communication
Links the battery to a hybrid inverter, storing excess solar energy for use in the evening and at night

8000-Cycle Design Life
Expand later with up to 8 batteries of the same batch and specification connected in parallel

TECHNICAL NOTE

51.2Vdc / 314Ah / 16.08kWh LiFePO4, voltage range 48–56Vdc, max discharge power 10.0kW, design cycle life 8000 cycles. Triple hardware protection, CAN / RS485, Wi-Fi app, LCD. Up to 8 in parallel. Charge -10°C to 70°C, discharge -20°C to 70°C. IP65, 564 × 156 × 960mm, CE / CB, UN38.3. DC breaker over 200A.

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E-NEO314/51.2V-IP65

PRODUCT TECHNICAL SPECIFICATIONS

PARAMETER	SPECIFICATIONS
ELECTRICAL	
Model	E-NEO314/51.2V-IP65
Battery Type	LiFePO4
Nominal Voltage	51.2Vdc
Voltage Range	48–56Vdc
Rated Capacity	314Ah
Total Energy	16.08kWh
Max Discharge Power	10.0kW
Max Continuous Current	Not available
Design Cycle Life	8000 cycles
Test Conditions	25°C, beginning of life energy measured from 0.2C CC / CV
BATTERY MANAGEMENT SYSTEM	
Protection Mode	Triple hardware protection
Battery Protection	Over-current · over-voltage · short circuit under-voltage · over-temperature
Communication	CAN / RS485
Wireless Monitoring	Wi-Fi (IEEE 802.11 b/g/n, 2.4GHz) via Smart Energy PLAT app
Display	LCD
Parallel Support	Up to 8 units (same batch and specification)
MECHANICAL	
Dimensions (W × D × H)	564 × 156 × 960mm
Weight	Not available
Case Material	Metal
Installation Method	Floor-standing
Protective Class	I

PARAMETER	SPECIFICATIONS
ENVIRONMENTAL	
Charge Temperature	-10°C to 70°C
Discharge Temperature	-20°C to 70°C
Optimal Temperature	15°C to 30°C
Relative Humidity	0–95% RH (no condensation)
Altitude	≤2000m
IP Rating	IP65
Recommended Installation	Indoor
Cooling	Ambient cooling
CERTIFICATION & TRANSPORT	
Certificates	CE / CB
Transport	UN38.3 tested · UN3480 as applicable
INSTALLATION REQUIREMENTS	
DC Breaker (Battery–Inverter)	Min. rating over 200A, or as per local regulations
Grounding Cable (Single Unit)	4mm² yellow-green, M4 stud, 1.0 N·m
Grounding Cable (Parallel)	6mm² yellow-green per battery
Clearance	≥20mm horizontal gap from walls / equipment
Installer	Qualified electrician
PACKAGE CONTENTS	
Battery	×1
Output Cable (1500mm)	×2
Communication Cable (2000mm)	×1
Grounding Cable (2000mm)	×1
Wall Mount Bracket	×2
Expansion Screw	×2
User Manual	×1

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

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