NEO 51.2V 314Ah

EURONET NEO LITHIUM BATTERY – 51.2V 314Ah

High-Capacity LiFePO4 Battery | Touch Display



NOMINAL VOLTAGE	ENERGY
51.2V	16.077kWh
MAX DISCHARGE	**CYCLE LIFE**
200A	6000 @ 80% DoD
ROUND-TRIP EFFICIENCY	**MAX PARALLEL UNITS**
>98%	15

OVERVIEW

The EURONET NEO 51.2V 314Ah stores 16.077kWh at 51.2V and is engineered for large residential solar storage and off-grid installations. Built on Grade-A LiFePO4 cells with greater than 98% round-trip efficiency, it delivers 200A maximum continuous charge and discharge (10.24kW sustained output). A touch display gives on-unit monitoring, and CAN/RS485 communication with optional Wi-Fi and Bluetooth provides full inverter integration. At 113kg with a 834×390×246mm footprint, it supports up to 15 units in parallel for 241.155kWh, and is certified to UN38.3, MSDS, CE and IEC.

KEY FEATURES

High Round-Trip Efficiency
Greater than 98% Ah efficiency minimises energy loss across every charge and discharge cycle

200A / 10.24kW Output
200A maximum continuous charge and discharge for large residential loads and demanding off-grid sites

Wide Voltage & Storage Range
Operating voltage range 43.2V–58.4V, with storage rated -20°C to 60°C (recommended -10°C to 35°C)

CAN / RS485 + Wi-Fi / Bluetooth
Works with major solar inverter brands, with optional Wi-Fi and Bluetooth app connectivity for monitoring

15-Unit Parallel
Connect up to 15 units in parallel to scale storage from 16.077kWh up to 241.155kWh as demand grows

Globally Certified
UN38.3, MSDS, CE and IEC certified for safe transport and for international deployment across markets

TECHNICAL NOTE

51.2V / 314Ah / 16.077kWh. Voltage range 43.2V–58.4V. Charging voltage 57.6V recommended, 58.4V max. Charge current 140A recommended, 200A max. Discharge voltage 44.8V recommended, cut-off 43.2V. Max discharge 200A. Round-trip efficiency >98%. 113kg, 834×390×246mm. Up to 15 in parallel. Certified UN38.3 / MSDS / CE / IEC.

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NEO 51.2V 314Ah

PRODUCT TECHNICAL SPECIFICATIONS

PARAMETER	SPECIFICATIONS
GENERAL	
Model	NEO 51.2V 314Ah
Series	NEO 51.2V Lithium Battery Series
Cell Chemistry	Grade-A LiFePO4
Nominal Voltage	51.2V
Rated Capacity	314Ah
Rated Energy	16.077kWh
Display	Touch display
CHARGE	
Voltage Range	43.2V–58.4V
Recommended Charging Voltage	57.6V
Max Charging Voltage	58.4V
Recommended Charge Current	140A
Max Continuous Charge Current	200A
DISCHARGE	
Recommended Discharge Voltage	44.8V
Discharge Cut-off Voltage	43.2V
Max Continuous Discharge Current	200A
Sustained Output	10.24kW
Round-trip (Ah) Efficiency	>98%

PARAMETER	SPECIFICATIONS
COMMUNICATION & EXPANSION	
Communication	CAN / RS485
App Connectivity	Wi-Fi & Bluetooth (optional)
Inverter Compatibility	Major solar inverter brands
Max Units in Parallel	15
Max System Capacity	241.155kWh (15 units)
PHYSICAL	
Weight	113kg
Dimensions	834×390×246mm
IP Rating	Not available
ENVIRONMENT & LIFE	
Operating Temperature	Not available
Storage Temperature	-20°C to 60°C (recommended -10°C to 35°C)
Cycle Life	6000 cycles (0.5C, 25°C @ 80% DoD)
BMS & CERTIFICATION	
BMS Protection Details	Not available
Certifications	UN38.3 · MSDS · CE · IEC

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

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