E-HVL51314K16

EURONET HV BATTERY – 512V 160.76kWh

High Voltage Rack Energy Storage | LiFePO4



MAX CLUSTER ENERGY	MAX CLUSTER VOLTAGE
160.76 kWh	512 V
BATTERY MODULE	**MAX MODULES / CLUSTER**
16.076 kWh / 314Ah	10
CYCLE LIFE	**PARALLEL CLUSTERS**
>6000 @ 80% DoD	Up to 28

OVERVIEW

The EURONET E-HVL51314K16 High Voltage Rack Energy Storage Series is a high-voltage DC battery system designed for solar and battery energy storage installations. Each system pairs a high-voltage box (BCU) with up to 10 lithium battery modules connected in series, housed in a wall-mounted rack, with CAN and RS485 communication for integration with the PCS, host computer and display, and LED status indication for capacity, faults and protection states. A cluster scales from 16.08kWh to 160.76kWh, and up to 28 clusters can be paralleled for systems of 4.5MWh+.

KEY FEATURES

Modular High-Voltage Design
51.2V 314Ah modules (16.076kWh each), 1 to 10 in series for 51.2V to 512V per cluster

Scalable to 4.5MWh+
Up to 28 clusters in parallel, each up to 160.76kWh, for systems from 160.76kWh to 4.5MWh+

Grade-A LiFePO4 Cells
Brand-new Grade A cells rated >6000 cycles at 80% DoD, 0.5C and 25°C, in a 16S1P module configuration

High-Voltage Box (BCU)
Control, protection and active balancing for every cluster, with independent control per cluster

CAN & RS485 Communication
CAN and RS485 interfaces integrate the system with the PCS, host computer and display

LED Status Indication
LED status panel shows capacity, faults and protection states locally on every system

TECHNICAL NOTE

Module 51.2V / 314Ah / 16.076kWh (16S1P). Cluster of up to 10 modules: 512V (160S1P), 160.76kWh. Max. continuous charge/discharge 157A, max. 314A (60s). Active balancing and independent control per cluster through the high-voltage box (BCU). CAN / RS485 communication with LED status panel. Indoor, wall-mounted rack installation by qualified personnel only.

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E-HVL51314K16

PRODUCT TECHNICAL SPECIFICATIONS

PARAMETER	SPECIFICATIONS
BATTERY MODULE	
Nominal Voltage	51.2 V
Nominal Capacity	314 Ah
Nominal Energy	16.076 kWh
Configuration	16S1P
Max. Modules / Cluster	10
Mounting	Wall-mounted rack
BATTERY CLUSTER (MAX. CONFIG.)	
Cluster Voltage	512 V (160S1P)
Cluster Capacity	314 Ah
Cluster Energy	160.76 kWh
Parallel Connection	Up to 28 clusters
Balancing	Active, per cluster
Control	Independent per cluster
ELECTRICAL RATINGS	
Max. Cont. Charge / Discharge	157 A
Max. Charge / Discharge (60s)	314 A
Control Unit	High-voltage box (BCU)
Status Indication	LED — capacity / fault / protect
CELL	
Cell Chemistry	LiFePO4
Cell Grade	Brand-new, Grade A
Cycle Life	>6000 @ 80% DoD, 0.5C, 25°C
COMMUNICATION & MONITORING	
Interfaces	CAN / RS485
Integrates with	PCS, host PC, display
Local Indication	LED status panel

PARAMETER	SPECIFICATIONS
GENERAL	
Application	Solar & BESS installations
Installation	Qualified personnel only
Enclosure	Wall-mounted rack
MODULE SCALABILITY (51.2V SERIES, PER CLUSTER)	
1 Module	51.2 V · 16.08 kWh
2 Modules	102.4 V · 32.15 kWh
3 Modules	153.6 V · 48.23 kWh
4 Modules	204.8 V · 64.30 kWh
5 Modules	256 V · 80.38 kWh
6 Modules	307.2 V · 96.46 kWh
7 Modules	358.4 V · 112.53 kWh
8 Modules	409.6 V · 128.61 kWh
9 Modules	460.8 V · 144.68 kWh
10 Modules	512 V · 160.76 kWh
Capacity	314Ah across all configurations
Paralleled Systems	Up to 28 clusters · 160.76kWh to 4.5MWh+
SCOPE OF SUPPLY	
High Voltage Battery System	E-HVL51314K16 · 1 set
Battery Module	51.2V, 314Ah, 16.076kWh, 16S1P ≤10 PCS per cluster
High-voltage Box (BCU)	Control, protection & balancing unit · 1 PCS
Wall-mounted Rack	Holds up to 10 modules · 1 PCS
Communication Cabling	CAN / RS485 · 1 set
Power Cabling & Connectors	Inter-module & BCU cabling · 1 set
Mounting Hardware	Wall brackets & fasteners · 1 set
Information & Drawings	Includes user manual · 1 PCS

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

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