

# High Voltage Battery Management Controllers

E2L™

P364E



## High Voltage Battery Management Controllers

E2L Offers modular lithium Iron (LFP) battery solutions that can be installed indoor, outdoors or in LFP battery containers.

When installing large capacity energy storage systems, it is required to increase the DC voltage by placing LFP batteries in series. Such installation requires external Battery Management Controllers in order to keep all batteries at the same state of charge for optimal operation.

E2L offers a range of high voltage Battery Management Controllers with or without center tap connections to build modular LFP battery systems up to 1229Vdc is unlimited capacities.



## High Voltage Battery Management Controllers to build LFP assemblies from 192 Vdc to 1229 Vdc Systems

Standard 51V LFP batteries can only be connected in parallel. Connecting standard low voltage lithium batteries in series will result in system failure. Special high voltage LFP batteries with adequate controllers are required when series connections are desired.

E24 offers HV LFP batteries that require Battery Management Controllers in order to connect the HV batteries in series.

Up to 32 HV LFP Battery Modules can be connected in Series through an HV Battery Controller to form a battery assembly.

Up to 32 HV Battery assemblies can then be connected in parallel through a hub: LFP38-H32 in order to reach the desired energy Storage capacity.



38.4V LFP Module Controller: LFP38H-C32-EXT



LFP38H-H32



38.4V LFP Module Controller: LFP38H-C32-INT

### 38.4Vdc Module Controller

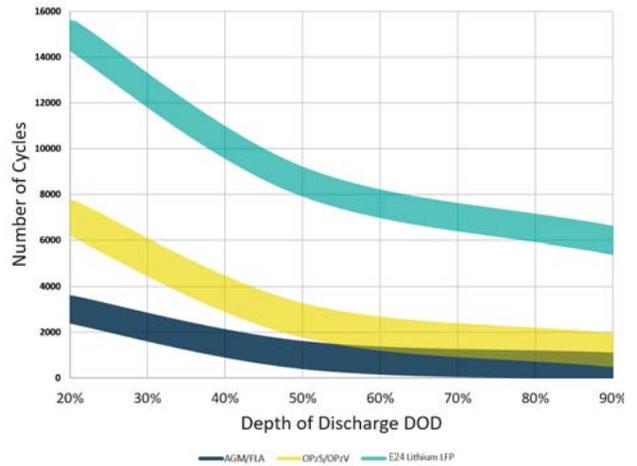
Reference:	LFP38H-C32-EXT	LFP38H-C32-INT
Related Battery Module:	LFP38H-M5K68	
AC Supply	100 - 290 Vac / 50Hz/1.3A	Internal
Operating Voltage (Vdc)	0 to 1000	
Operating Current (A <sub>dc</sub> )	180	
Self Consumption Power (W)	8	
Communication	RS485 Modbus RTU, CAN	
Dimensions (WxDxH) (mm)	315 x 710 x 171.5	315 x 738 x 171.5
Weight (Kg)	19	
Index of Protection	IP20	
Design Life (Years)	15+	
Operating Temperature (°C)	-20 to +65	
Storage Temperature (°C)	-40 to +80	
Humidity (%)	5 to 95	
Altitude (m)	2000	
Certifications	IEC62619, UL 1973, UL9540A, CE, UN38.3	
Warranty	2 Years (*)	

(\*) Refer to Terms and Conditions

# Outstanding LFP Cells Quality

E24 collaborates with the worlds leading LFP cells manufacturers through a proven screening and quality control process to offer the highest quality LFP batteries possible.

E24 batteries deliver more than 9,000 cycles at 50%DOD and well beyond 6000 cycles at 90% DOD under a 10 Year warranty program.



# 10-Year Field Warranty

**E24 Offers the longest warranty on LFP batteries in the industry.**

With 10-Year warranty (Refer to E24 Terms and conditions), E24 offers the most solid warranty on LFP batteries on the market.

# Remote Monitoring & After-Sales Service

**E24 Offers a range of after-sales service in partnership with its and service partners**

As part of E24 service offering, E24 offers remote monitoring service agreements to monitor clients assets and notify of any abnormality. The Remote monitoring serives is a remote prevent maintenance contract that would detect in a very early stage any system malfunction and recomande the corrective measures. E24 offers further after sales services to properly maintain client's assets.

# International Quality Certifications

E24 lithium Iron (LFP) battery assemblies and containers follow stringent quality control and have obtained the needed certifications to be installed on international markets.



UL 1973

IEC 62619

UL 9540A



IEC 63056

VDE

## Other Products from E24



Fuel Savers



PCS



String Inverters



Solar Structures

# E24 Modular Range Of Products For Building Easy, Flexible & Evolutive Solutions

E24 products dynamically evolve with the lifestyle and work style of its customers while easing the installation process.

E24 products are conceived in modules allowing for an easy upgrade to adjust with the needs of the customers. Being modular and easy to connect E24 products allow installers to easily configure the required modules for an optimal solution while offering upgrade options.



## Ordering Information

<b>Ref Number</b>	<b>Description</b>
LFP38H-C32-EXT	HV LFP Battery RM Controller for up to 32 x LFP38H-RM5K7 Modules in series, External Power supply
LFP38H-C32-INT	HV LFP Battery RM Controller for up to 32 x LFP38H-RM5K7 Modules in series, Internal Power supply
LFPMB-64S250A-CT	HV Mater BMS with Center Tap, 64S, 250A, 16S per String
LFPMB-132S250A-CT	HV Mater BMS with Center Tap, 128S to 150S, 250A, 16S to 24S per String
LFPMB-240S250A	HV Master BMS without Center Tap, 240S, 250A, 16S to 24S per String, 260-1000V
LFPMB-LCD7	LCD for HV Master BMS, 7 inch

**E24**®

[www.e24solutions.com](http://www.e24solutions.com)



ISO 9001:2015



QUALITY STANDARD

