

10 YEAR WARRANTY*



INTEGRATED BMS



MODULAR



SAFETY



MONITORING

Lithium Batteries

48V50Ah-LV

51V100Ah-LV



IMEON LV Lithium Modules

Parallel connection of up to 36 modules.



ABOUT IMEON ENERGY

IMEON ENERGY, established in 2013, manufactures solar inverters for self-consumption with storage. Building upon five years of successful collaboration with renowned battery manufacturers, today, IMEON introduces its own cutting-edge lithium modules. The IMEON inverter / battery combination intelligently manages energy flows, making it the most efficient storage system on the market.

RELIABLE AND ROBUST

IMEON LV battery modules feature the latest generation of lithium iron phosphate cells. The IMEON battery is a wise choice for delivering kilowatt-hours at the best possible price throughout the operating life of your solar system. Coupled with an IMEON inverter and connected to the Web, IMEON batteries come with a warranty of up to 10 years⁽²⁾.

MAXIMUM SAFETY

Each IMEON LV battery incorporates a BMS (battery management system) that balances the battery cells and sends instructions to the inverter concerning the charging currents and voltages to respect. What is more, these modules can be recycled and are made up of LiFePO₄ (lithium iron phosphate) cells, ensuring optimum safety for users.

MODULAR DESIGN

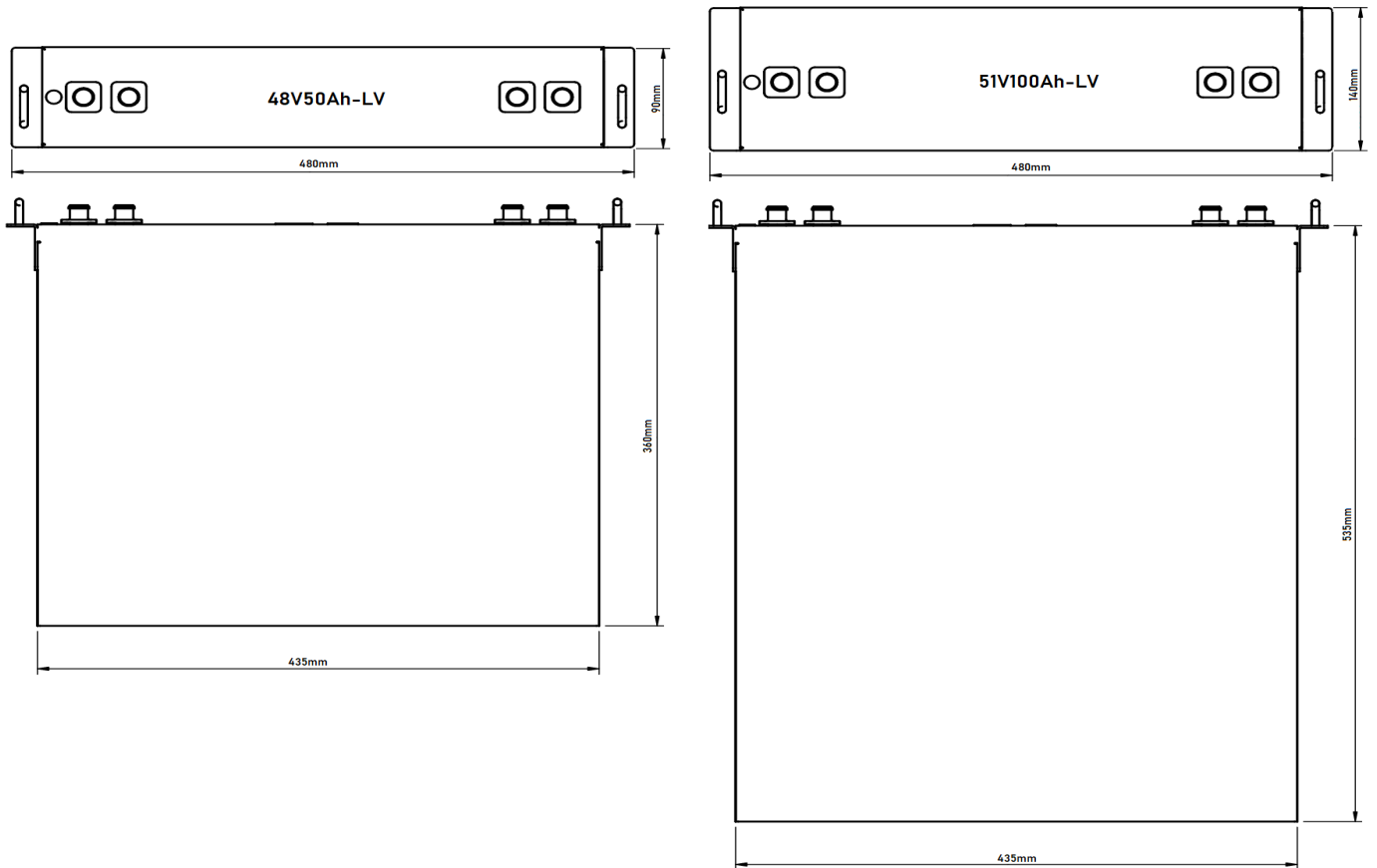
Up to 36 modules can be installed in parallel without additional accessories. IMEON LV modules offer a remarkable level of modularity, enabling the creation of energy storage systems ranging from 2.4 to 184.3 kWh of stored energy. IMEON modules can be integrated into the majority of solar self-consumption, back-up and grid service projects.

^(*) see IMEON ENERGY guarantee conditions

Photos non contractual

	Module 48V50Ah-LV	Module 51V100Ah-LV
Total energy [Wh]	2400	5120
Capacity [Ah]	50	100
Rated voltage [V]	48	51
Voltage range [V]	45 - 54	45 - 57
Rated charge / discharge current [A]	25	50
Maximum charge / discharge current [A]	50	100
Number of cycles at 80% DOD	6000	
Parallel operation	Up to 36 modules	

GENERAL INFORMATION		
Dimensions (l x d x h) [mm]	480 x 360 x 90	480 x 535 x 140
Weight [kg]	24	44
Communication with inverter	CAN, RS485	
Cell type	LFP (lithium iron phosphate)	
Management	Integrated BMS (Battery Management System)	
Humidity [%]	5 to 85	
Operating temperature range [°C]	+10 to +40	
Storage temperature range [°C]	-20 to +60	
Altitude [m]	< 4000	
Certifications	CE / IEC62619 / UN38.3	
Guarantee*	10 years / Extension to 20 years (optional)	



* See IMEON ENERGY Guarantee conditions