

SOLUTIONS FOR
SELF-CONSUMPTION
AND ENERGY STORAGE

IMEON ENERGY

YOUR POWER YOUR RULES



MAXIMUM
SAFETY



SCALABILITY
MODULARITY



FAST
INSTALLATION



MONITORING
INTEGRATED

Simplify your installations. Maximize your performance.



IMEON



Since 2013, IMEON ENERGY has been manufacturing inverters incorporating artificial intelligence for solar self-consumption with batteries. A French pioneer in hybrid solar storage, IMEON has designed the NEO: a plug-and-play solution combining artificial intelligence and ease of installation.

High-efficiency HV Batteries

IMEON NEO

3.55 to 14.2kWh

Stackable High Voltage Modules



RELIABLE AND ROBUST

Manufactured from lithium iron phosphate cells, NEO storage batteries withstand intensive charge and discharge cycles without loss of performance. Their stackable structure simplifies installation and maintenance, while offering a scalable solution for future needs. Optimized by artificial intelligence, they require little maintenance, making NEO a safe and long-lasting investment.

MAXIMUM SAFETY

Engineered for maximum safety, NEO batteries are managed by the NEO BDU, a smart BMS that balances cells and communicates with the NEO hybrid inverter. Thanks to its advanced protection against overloads, short circuits, and overheating, it ensures equipment safety while extending battery lifespan.

HIGH PERFORMANCE

NEO high-voltage batteries are distinguished by their high energy efficiency. Designed to maximize energy storage and restitution, they ensure efficient conversion of photovoltaic production, optimizing self-consumption rates. Ideal for both domestic and professional use, they reduce dependence on the electricity grid and deliver substantial savings.

Non-contractual pictures

	IM-NEOBAT3552	IM-NEOBAT
DESCRIPTION	Stackable storage module Plug & Play	Complete Plug & Play system of 4 stackable storage modules
Storage technology	Lithium Fer-Phosphate	
Setting	1 module	4 modules in serie
Operating - BMS management	Operational with NEO-BDU	
Communication (Inverter NEO)	CAN	
Total NEO energy / per module [kWh]	3.552	14.2
Rated capacity [Ah]	37	
Rated voltage NEO / per module [VDC]	90	360
NEO voltage range [VDC]	x1 90V / x2 180V / x3 270V / x4 360V max efficiency	
Recommended / maximum depth of discharge (DOD) [%]	80 / 90	
Life span	> 6000 cycles*	
Operating temperature range [°C]	0 ~50	
Protection category	IP54	
Compliance	CE / IEC62619 / UN38.3	
Guarantee	10 years / Extension to 20 years (optional)	
Dimensions (H x W x D) [mm]	504 x 380 x 240	504 x 380 x 960
Weight [kg]	41	164

NEO-BAT modules are operational with the NEO - BDU management system and must be installed with the NEO-BASE support (included with the purchase of a module).

	IM-NEOBDU	IM-NEOBASE
DESCRIPTION	Management system for NEO-BAT - Up to 3 modules -	NEO-BAT battery cradle - Included with every NEO-BAT system -
Dimensions (H x W x D) [mm]	504 x 380 x 156.5	504 x 380 x 186
Weight [kg]	14	9.5

IMEON NEO

