

SELF-CONSUMPTION
SOLAR + STORAGE

Power: 3 to 36 kW
Energy: 7.2 to 76.8 kWh



GRID
CONNECTED



ISOLATED
SITES



OUTDOOR
INSTALLATION



SMART-GRID
INTELLIGENCE



CONNECTED
SOLUTION



IMEON ENERGY
Your Power, Your Rules

IMEON X-ESS 

«All-in-one» solutions for
extreme environments



IMEON «All In One» ESS cabinets integrating
power electronics and energy storage

About IMEON ENERGY

With several thousand systems delivered worldwide, IMEON ENERGY has become a key player in the field of energy conversion and storage, recognized for the reliability of its solutions. Building on this experience, in 2020 IMEON ENERGY launched a new range of energy storage solutions dedicated to commercial and industrial applications.



ALL-IN-ONE

The IMEON X-Trem and X-Home ESS solutions integrate all the components needed for a solar installation with storage: hybrid solar inverter, lithium batteries and electrical protection. As an option, IMEON offers commissioning services tailored to Commercial & Industrial (C&I) and Residential projects.

RELIABILITY

The products from IMEON X-ESS range are built using reliable components to ensure optimal operation of the solution. These components are integrated in a secure and air-conditioned cabinet allowing installation of the X-ESS in the extreme environments.

CUSTOMISED

In addition to the IMEON X-ESS solutions presented in this brochure, IMEON offers «tailor-made» systems, sized according to the needs of your customer. Thanks to modular design of the X-ESS, IMEON is able to assist you in finding a solution that meets your requirements.

^(*) See IMEON ENERGY warranty conditions

Images non contractual

GRID	X-Home 3	X-Home 9	X-Trem 18	X-Trem 27	X-Trem 36
Nominal power	3 kW	9 kW	18 kW	27 kW	36 kW
Voltage / Frequency	230 Vac / 50 Hz 60 Hz		3/N/PE; 230/400 Vac / 50 Hz, 60 Hz		
Grid injection			Configurable		
Energy source priorities			Configurable		
Smart-Meter			100A (optional extension)		
SOLAR					
Max. installed power	4 kWc	12 kWc	24 kWc	36 kWc	48 kWc
Number of MPPT entry(s)	1	2	4	6	8
Voltage range MPPT	120 - 480 Vdc		380 - 750 Vdc		
Max. current			13 A		
Max. voltage	560 Vdc		650 Vdc		
BATTERY					
Cell type			Lithium Iron Phosphate (LiFeP04)		
Stored energy	7.2 kWh	19.2 kWh	38.4 kWh	57.6 kWh	76.8 kWh
Voltage range			45 - 54 Vdc		
Max. load power	3 kW	9 kW	18 kW	27 kW	36 kW
Recommended current			0.5 C		
Max. charge efficiency			93 %		
Battery charging			Configurable		
Battery discharging			Configurable		
Number of cycles**			6000		
BACK-UP					
Availability			Standard		
Transfer time			13 ms		
Power rating	3 kW	9 kW	18 kW	27 kW	36 kW
Voltage / Frequency	230 Vac / 50 Hz		3/N/PE; 230/400 Vac / 50 Hz, 60 Hz		
Rated current (per phase)	13 A	13 A	26 A	39 A	52 A
ELECTRICAL PROTECTIONS					
Grid			Differential circuit breaker, Lightning arrester		
Solar			Disconnect(s), fuse(s), lightning arrester(s)		
Battery			DC circuit breaker		
GENERAL SPECIFICATIONS					
Protection class			IP 55 (outdoor or indoor installation)		
Temperature regulation			Via reversible air conditioning gas R134a - Power in heating mode 500W - Power in cooling mode 800W		
Dimensions (H*W*D, mm)*	1050*700*930	1150*1200*1300	1150*1200*1300	1150*2280*1300	1150*2280*1300
Weight	270 kg	560 kg	810 kg	1280 kg	1530 kg
Technology			TL (without transformer)		
Communication			CAN / Dry contact / Modbus / ETH / LTE option / Over-The-Air update		
Terms and conditions of use			Humidity : 0 to 100 %, Temperature : -30 to + 60°C		
Warranty			10 years**/ Extension to 20 years (optional)		

Datasheet IMEON X-ESS EN V1E Jan 2024.
 Cancels and replaces previous versions.
 Data subject to change without notice.

(*) Dimensions and weights may differ depending on specifications and features.
 (**) Varies according to operating conditions - data given under standard test conditions: max current 0.5C, 25°C, 80% DOD, 70% SOH