

SELF-CONSUMPTION
SOLAR + STORAGE

Power: 3 to 240 kW
Energy: 7.2 to 500 kWh



GRID
CONNECTED



ISOLATED
SITES



OUTDOOR
INSTALLATION



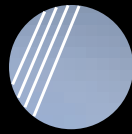
SMART-GRID
INTELLIGENCE



CONNECTED
SOLUTION

About IMEON ENERGY

With several thousand systems delivered worldwide, IMEON ENERGY has become a key player in 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.



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
Installations from 3kW to MW



ALL-IN-ONE

The IMEON X-Trem ESS solution integrates all the necessary components for a solar installation with storage: hybrid solar inverter, electrical protections and lithium batteries. IMEON offers optional commissioning services adapted to C&I solutions.

RELIABILITY

The IMEON ESS range integrates reliable components to ensure optimal operation of the solution. These components are integrated in a secure and air-conditioned cabinet allowing the installation of this solutions in extreme environments.

CUSTOMISED

In addition to the IMEON X-Trem ESS solutions presented in this brochure, IMEON offers «tailor-made» solutions, sized according to your customers' needs. Whether you are looking for power in the kW or MW range, IMEON is able to assist you in finding a solution that meets your needs.

(*1) Your energy, your rules

GRID	X-Home 3	X-Home 9	X-Home 18	X-Trem 27	X-Trem 60	X-Trem 120	X-Trem 180	X-Trem 240
Nominal power	3 kW	9 kW	18 kW	27 kW	60 kW	120 kW	180 kW	240 kW
Voltage / Frequency	230 Vac / 50 Hz							
Grid injection	3/N/PE; 230/400 Vac / 50 Hz; 60 Hz							
Energy source priorities	Configurable							
Smart-Meter	100A (optional extension) On request							
SOLAR								
Max. installed power	4 kWc	12 kWc	24 kWc	36 kWc	72 kWc	144 kWc	216 kWc	288 kWc
Number of MPPT entry(s)	1	2	4	6	2	4	6	8
Voltage range MPPT	120 - 480 Vdc	380 - 750 Vdc	380 - 750 Vdc	380 - 750 Vdc	200 - 800 Vdc	200 - 800 Vdc	200 - 800Vdc	200 - 800 Vdc
Max. current	18 A	18 A	18 A	18 A	80 A	80 A	80 A	80 A
Max. voltage	560 Vdc	850 Vdc	850 Vdc	850 Vdc	1000 Vdc	1000 Vdc	1000 Vdc	1000 Vdc
BATTERY								
Cell type	Lithium Iron Phosphate (LiFeP04)				Lithium Iron Phosphate (LiFeP04)			
Stored energy	7.2 kWh	19.2 kWh	38.4 kWh	57.6 kWh	125 kWh	250 kWh	375 kWh	500 kWh
Voltage range	45 - 54 Vdc	45 - 54 Vdc	45 - 54 Vdc	45 - 54 Vdc	200 - 900 Vdc	200 - 900 Vdc	200 - 900 Vdc	200 - 900 Vdc
Max. load power	3 kW	9 kW	18 kW	27 kW	60 kW	120 kW	180 kW	240kW
Recommended current	0.5 C							
Max. charge efficiency	93 %							
Battery charging	Configurable							
Battery discharging	Configurable							
Number of cycles**	6000							
BACK-UP								
Availability	Standard				Option			
Transfer time	13 ms							
Power rating	3 kW	9 kW	18 kW	27 kW	60 kW	120 kW	180 kW	240 kW
Voltage / Frequency	230 Vac / 50 Hz							
Rated current (per phase)	13 A	13 A	26 A	39 A	90 A	180 A	270 A	360 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 (mm)	700*750*1010	1200*1070*1150	1200*1070*1150	2280*1070*1150	1590*1090*2300 (x2)	1590*1090*2300 (x3)	1590*1090*2300 (x4)	
Weight	270 kg	560 kg	810 kg	1280 kg	2210 kg	4420 kg	6630 kg	8840 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**							

Datasheet IMEON X-ESS EN V1B Oct 2021.

Cancels and replaces previous versions.

Data subject to change without notice.

(*) Dimensions and weights may differ from those of the wafers 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