

SOLAR SELF-CONSUMPTION + STORAGE

Power: 3 to 60 kW  
Energy: 7.2 to 125 kWh



GRID CONNECTED



ISOLATED SITES



OUTDOOR INSTALLATION



SMART-GRID INTELLIGENCE



CONNECTED SOLUTION



**IMEON ENERGY**  
Your Power, Your Rules\*

## IMEON X-Trem ESS

«All-in-one» solutions for extreme environments



IMEON «All In One» X-Trem ESS cabinets 60 kW  
Conversion, lithium batteries and electrical protections Installations up to 600 kW - 1.2 MWh

### About IMEON ENERGY

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

### 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 X-Trem ESS range integrates reliable components to ensure optimal operation of the solution. These components are integrated in a secure, air-conditioned cabinet allowing the installation of IMEON solutions in environments with extreme climatic conditions.

### CUSTOMISED

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

GRID	X-Trem 3	X-Trem 9	X-Trem 18	X-Trem 27	X-Trem 60
Nominal power	3 kW	9 kW	18 kW	27 kW	60 kW
Voltage / Frequency	230 Vac / 50 Hz 0 Hz		3/N/PE; 230/400 Vac / 50 Hz, 60 Hz		
Grid injection	Configurable				
Energy source priorities	Configurable				
Smart-Meter	Limited to 100A (extension possible on request)				

SOLAR	X-Trem 3	X-Trem 9	X-Trem 18	X-Trem 27	X-Trem 60
Max. installed power	4 kWc	12 kWc	24 kWc	36 kWc	72 kWc
Number of MPPT entry(s)	1	2	4	6	6
Voltage range MPPT	120 - 480 Vdc	380 - 750 Vdc	380 - 750 Vdc	380 - 750 Vdc	200 - 800 Vdc
Max. current	18 A	18 A	18 A	18 A	28 A
Max. voltage	560 Vdc	850 Vdc	850 Vdc	850 Vdc	1000 Vdc

BATTERY	X-Trem 3	X-Trem 9	X-Trem 18	X-Trem 27	X-Trem 60
Cell type	Lithium Iron Phosphate (LiFePO4)				
Stored energy	7.2 kWh	19.2 kWh	38.4 kWh	57.6 kWh	125 kWh
Voltage range	45 - 54 Vdc	45 - 54 Vdc	45 - 54 Vdc	45 - 54 Vdc	392 - 504 Vdc
Max. load power	3 kW	9 kW	18 kW	27 kW	60 kW
Recommended current	0.5 C				
Maximum current	1 C				
Max. load capacity	93 %	93 %	93 %	93 %	98 %
Battery charging	Configurable				
Battery discharge	Configurable				
Nombre de cycles**	6000				8000

BACK-UP	X-Trem 3	X-Trem 9	X-Trem 18	X-Trem 27	X-Trem 60
Availability	Standard				Option
Transfer time	13 ms				2 s
Nominal power	3 kW	9 kW	18 kW	27 kW	60 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	90 A

ELECTRICAL PROTECTIONS	X-Trem 3	X-Trem 9	X-Trem 18	X-Trem 27	X-Trem 60
Grid	Differential circuit breaker, Lightning arrester				
Solar	Disconnecter(s), fuse(s), lightning arrester(s)				
Battery	DC circuit breaker				
Back-up	Earth leakage circuit breaker, source selector switch				

GENERAL SPECIFICATIONS	X-Trem 3	X-Trem 9	X-Trem 18	X-Trem 27	X-Trem 60
Protection class	IP 55 (outdoor or indoor installation)				
Dimensions (mm)	1400*900*900	2300*900*1100	2300*900*1100	2300*1600*1100	1210*1900*2150
Weight	332 kg	659 kg	788 kg	1309 kg	1898 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 95 %, Temperature: -5 to + 50°C				
Warranty	5 years, optional extension to 10 years				

(\*) Provided that all the technical specifications are respected

(\*\*) Varies according to operating conditions - data given in standard test conditions: max current 0.5C, 25°C, 80% DOD, 70% SOH

Cabinet X-Trem ESS EN-V4A May 2021.

Cancels and replaces previous versions.

Data may be changed without notice.

IMEON ENERGY  
 10 Rue Amiral Romain Desfossés  
 29200 Brest - FRANCE  
 +33(0)1.84.17.51.15  
 contact@imeon-energy.com