

SELF-CONSUMPTION
SOLAR + STORAGE

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



GRID
CONNECTED



ISOLATED
SITES



INSTALLATION
OUTDOOR



SMART-GRID
INTELLIGENCE



CONNECTED
DEVICEe



IMEON ENERGY
Your Power, Your Rules

IMEON X-Trem ESS

«All-in-one» solutions
for extreme environments



IMEON «All In One» X-Trem ESS 60 kw cabinets

Conversion, lithium batteries and electrical protections

Installations up to 600 kW - 1.2MWh

About IMEON ENERGY

With a track record of several thousand systems delivered worldwide, IMEON ENERGY has become a key player in energy conversion and storage industry, one recognized for the reliability of its products. Building upon its experience, in 2020 IMEON ENERGY releases a new range of energy storage solutions dedicated to commercial and industrial applications.

ALL-IN-ONE

The IMEON X-Trem ESS is made of a hybrid solar inverter, electrical protections and lithium batteries assembled inside of an air-conditioned cabinet to maximise its robustness as well as simplicity of its installation. As an option, IMEON offers commissioning support services adapted to C&I solutions.

RELIABILITY

The IMEON X-Trem ESS incorporates highly reliable components to ensure optimal operation of the entire solar self-consumption system. These components are housed in a secure, IP55-rated, air-conditioned cabinet allowing outdoor installation in environments with extreme climatic conditions.

CUSTOM-MADE

Beyond the IMEON X-Trem ESS models presented in this document, IMEON offers custom-made assemblies, designed in accordance with the needs of your customers. Whether you are looking for kilowatts or megawatts of power, IMEON is able to help you find a solution that meets your requirements.

GRID	X-Trem 3	X-Trem 9	X-Trem 18	X-Trem 27	X-Trem 60
Rated 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			
Grid injection	Configurable				
Energy source priorities	Configurable				

PV	X-Trem 3	X-Trem 9	X-Trem 18	X-Trem 27	X-Trem 60
Max. installed power	4 kWp	12 kWp	24 kWp	36 kWp	72 kWp
Number of MPPT inputs	1	2	4	6	6
MPPT Voltage range	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	Lithium Iron Phosphate (LiFeP04)				
Cell type	Lithium Iron Phosphate (LiFeP04)				
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. charging power	3 kW	9 kW	18 kW	27 kW	60 kW
Recommended current	0.5C				
Maximum current	1C				
Max. charge efficiency	93%	93%	93%	93%	98%
Battery charge	Configurable				
Battery discharge	Configurable				
Number of cycles**	6000				8000

BACKUP	Standard				Option
Availability	Standard				Option
Switchover time	13 ms				2 s
Rated 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					
Grid	Differential circuit breaker, lightning arrester				
PV	Disconnecter(s), fuse(s), lightning arrester(s)				
Battery	DC breaker				
Backup	Differential circuit breaker, transfer switch				

GENERAL SPECIFICATIONS	IP 55 (outdoor or indoor installation)				
Ingress protection class	IP 55 (outdoor or indoor installation)				
Dimensions (in mm)	750*750*1650	900*900*2150	900*900*2150	900*1900*2150	1210*1900*2150
Weight	164 kg	333 kg	544 kg	866 kg	1250 kg
Technology	TL (transformerless)				
Communication	CAN / Dry contact / Modbus				
Conditions of use	Humidity: 0 to 100 %, Temperature: -30 to + 60°C				
Warranty	5 years, optional extension to 10 years				