

SELF-CONSUMPTION
SOLAR + STORAGE

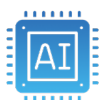
Power: 100kVA to 1.2 MVA
Energy: 200kWh to 2.4 MWh



ON & OFF-GRID
FULL BACKUP
ISOLATED SITES



ALL IN ONE
PLUG'N'PLAY



SMART GRID
OPTIMIZATIONS
Artificial Intelligence



IP55 INDOOR
AND OUTDOOR

IMEON ENERGY

YOUR POWER YOUR RULES

All-in-one, Smart & Flexible For extreme environments



IMEON ENERGY French innovators

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 MEGA: a plug-and-play solution combining artificial intelligence and ease of installation in an all-in-one integrated smart storage system.

MEGA 100KVA - 200KWh

ESS up to 1.2MVA / 2.4MWh - Parallel up to 12



ALL-IN-ONE

The IMEON MEGA solution integrates 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 MEGA range are built using reliable components to ensure optimal operation of the solution. These components are integrated in a secure and airconditioned cabinet allowing installation of the MEGA in the extreme environments.

CUSTOMIZED

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

Non contractual pictures

GRID AC	ESS MEGA
Rated output power [kW]	100
Voltage / Frequency [Vac / Hz]	3/N/PE: 230/400 / 50, 60
Maximum output current [A]	165
Energy source priorities / Grid Injection	Configurable
BACKUP	
Rated output power [kVA]	100
Voltage / Frequency [Vac / Hz]	3/N/PE: 230/400 / 50, 60
Maximum output current / phase [A]	165
SOLAR INSTALLATION	
Maximum input power PV [kWp]	150
Maximum power per MPPT input [kWp]	50
Number of MPPT inputs	3
Starting voltage - open circuit [Vdc]	250
Maximum short-circuit current [A]	150
Maximum input voltage [V]	650
Priorities for production use	Programmable (Consumption / Battery / Grid) / Optimised by IA
BATTERY AND CHARGE	
Type of batteries	LiFePO4
Nominal Capacity [kWh]	200
Battery Capacity [Ah]	280
DC range voltage [Vdc]	696-864
Rated current [A]	140
Maximum current [A]	160
PROTECTIONS	
Battery	DC Circuit Breaker
Fire Protection	Aerosol, Water fire system, Multi-sensor/Water Ingress Audible & Visuel Fire alarm, Explosion-proof Ventilation
GENERAL SPECIFICATIONS	
Dimensions H x L x P [mm]	1845 * 1190 * 2250
Weight [kg]	2800 ± 100
Protections ratings	Grade IP 55 - C3 corrosion
Cooling/Heating system	Air Cooling/Heating (≤ 70dB)
Air Conditioner Power	3kW (Cooling), 1kW (Heating)
Operating Temperature / Humidity	-20~50°C(Derating above 45°C) - 0~95%RH (Non-condensing)
Operating mode	Smart-Grid / UPS Backup / Off-Grid / On-Grid / VPP Ready / Peak & Valley
Display	Touch Screen
OS / Processor	OS: Linux Debian - CPU: ARM Cortex (Texas Instrument) 32 bits RAM : 8 Go of Storage Integrated Artificial Intelligence - IOT Ready
Communication - Monitoring - I/O	Wifi 802.11 b/g/n 2.4 GHz - 2 USB 2 - 1 Ethernet IP - Technologie OTA 2 CAN bus - 3 RS485 - 1 relais 230V 16A - 4 analog inputs - 3 electrical captors
Warranty	10 years / Extension to 20 years (optional)**

* power loss from 45°C ** In accordance with IMEON ENERGY's Warranty Conditions.

Cancels and replace previous versions. Technical details are subject to change without prior notice. V2D