

SOLUTIONS FOR
SELF-CONSUMPTION
AND ENERGY STORAGE

IMEON ENERGY

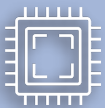
YOUR POWER YOUR RULES



ON & OFF-GRID
FULL BACKUP



ALL IN ONE
PLUG'N'PLAY



I.A. INSIDE
Artificial Intelligence



IP65 INDOOR AND
OUTDOOR

Simplify your installations. Maximize your performance.



IMEON



Since 2013, IMEON ENERGY has been designing and manufacturing inverters integrating artificial intelligence for solar self-consumption with batteries. A French pioneer in hybrid solar storage, IMEON offers plug-and-play solutions combining innovation and ease of installation.

Hybrid Inverter

IMEON 20K-30K

DYNAMIC MANAGEMENT

Thanks to integrated AI and intelligent energy flow management, IMEON 30 maximizes self-consumption by up to +100%(1). It anticipates consumption peaks and distributes energy. IMEON 30 reduces bills by limiting grid usage at peak times via peak-shaving(2), while taking advantage of proactive management of electricity tariffs, increasing the profitability of the installation.

OPTIMIZED STORAGE

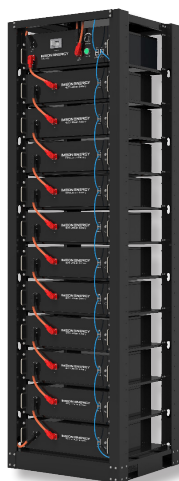
IMEON 30 doubles battery life thanks to artificial intelligence that optimizes charge and discharge cycles. This optimized management reduces premature battery wear and lowers maintenance costs. Compatible with all brands of solar panels and combined with its high-efficiency batteries, the IMEON 30 combines economic performance and durability.

INTUITIVE INSTALLATION

IMEON 30 is ideal for installers who want to optimize their time. Its plug-and-play system makes installation quick and easy, without the need for complex settings or additional accessories. Its remote supervision, integrated full backup and flexibility reduce installation and maintenance costs, offering a reliable, proven and easy-to-deploy solution.

⁽¹⁾ In accordance with IMEON ENERGY's Warranty Conditions

NETWORK INPUT / BACKUP OUTPUT	IMEON 20	IMEON 30
Rated output power	20 000W	30 000 W
AC voltage / Frequency (input & output)	3/N/PE: 230/400 Vac (±15 %) / 50 Hz , 60 Hz (±5 Hz)	
Nominal output current	29A	43,5 A
Maximum input current	33 A / phase	50 A / phase
Feed in to grid	Programmable (yes by default)	
Energy consumption priorities	Programmable (PV / Storage / Grid)	
SOLAR INSTALLATION		
Maximum input power	Up to 40 000 Wp ⁽³⁾	
Number of MPPT inputs	3	
MPPT voltage range (Vmpp)	350 V – 900 V	
Maximum input current (Impp)	27 A	
Maximum short-circuit current (Isc)	29 A	
Maximum input voltage (Voc)	1 000 V	
Maximum efficiency	DC to AC : 96,5% (96% EU)	
BATTERY & CHARGE		
DC range voltage	400 - 1000 Vdc	
Maximum discharge current	50 A	
Maximum charging current (Solar/Grid)	50 A	
Type of batteries	IMEON Lithium	
Battery charge	Programmable	
Battery discharge	Programmable (2 thresholds according to grid availability)	
GENERAL		
Dimensions (w x h x d)	660 x 750 x 255 mm	
Protection category	IP 65	
Weight	73 kg	
Technology	TL (transformless)	
Operating mode	Smart-Grid / UPS Backup / Off-Grid / On-Grid / VPP Ready / Peak & Valley	
OS / Processor	OS: Linux Debian - CPU: ARM Cortex (Texas Instrument) 32 bits RAM : 8 Go of storage Artificial Intelligence inside - IOT Ready	
I / O Connectors	Wifi 802.11 b/g/n 2.4 GHz - 2 USB 2 - 1 Ethernet IP - OTA Technology ⁽⁴⁾ 1 CAN bus - 2 RS485 - 1 relay 230V 16A 4 analog inputs : 1 temperature probe - 3 electrical measurements	
Conditions of use	Humidity level : 0 to 90 % without condensation, T°C : -25 à + 60°C, degressive power >45°C Altitude : 0 ~ 1000 m ⁽⁵⁾	
Guarantee	10 years ⁽⁶⁾ / Extension to 20 years (optional)	



IMEON C&I RANGE IMEON 20/30 HV BATTERY

(1) Depending on conditions of use

(2) Peak shaving

(3) Taking into account all technical specifications

(4) Over-The-Air

(5) Beyond 1000m, power decreases by 1% every 100m.

(6) The Internet connection must be operational at least 95% of the system's operating time.