

THE SELF-USE
SMART INVERTER

NEW GENERATION



GRID-TIE



OFF-GRID



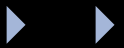
INTELLIGENT
STORAGE



30% MORE
EFFICIENCY



PLUG & PLAY
INSTALLATION



IMEON ENERGY

Your Power, Your Rules

Self Use 3kW Smart Inverter



New IMEON 3.6
3kW PV input, 6kW AC output

Thanks to IMEON 3.6, the self produced energy is intelligently oriented and used to an optimal performance.

Its innovative conception allows to reduce the number of energy storage cycles, all while significantly increasing its capacity and life.

SMART GRID

With the smart management and the real time phase-coupling/multi energy of IMEON, the yield is maximised by choosing the best energy mode either by consuming it (self-use) or by storing it, or injecting the produced electricity to the grid (feed in tariff) or all at the same time. It adapts automatically to the installation configuration without any complex settings with no more need to touch the electric panel.

ECONOMIC

IMEON's compact and integrated system replaces the need for solar chargers, commutator or additional inverters. The clever management and the coupling of real time/multi energy enable storing energy when needed, while also improving the yield efficiency, all while reducing the price of the energy to >30%. The capacity of the battery set is reduced to improve its lifetime, with only one cycle needed a day with IMEON.

ALL IN ONE

One answer for all installation types: solar / wind turbines / Hybrid / off-grid isolated sites / grid-tie. All features are integrated in one single control unit to replace various components : converter, charger, commutator in order to get an increased reliability / an optimisation of the production resources / personal security measures / gain of space when installing / better performance / local or remote monitoring , quick Plug-&-Play connection

GRID AC (ON-GRID & OFF-GRID)	IMEON 3.6
Nominal output power	3000 W
Maximum output power	6000 W*
AC voltage (input & output)	230 Vac (±15 %) / 50 Hz (±5 %)
Nominal output current	13 A
Maximum output current	26 A*
Feed in to grid	Programmable (yes by default)
Energy consumption	Programmable priorities (PV / Storage / Grid)

SOLAR INSTALLATION	
Maximum input power	3 150 W
Start-up voltage	150 V
Number of MPPT inputs	1
MPPT voltage range	120V – 450V
Maximum input current	18 A
Maximum input voltage	510 V
Maximum efficiency	>95,5% (94,5% EU)
Solar production use	Programmable priorities (PV / Storage / Grid)

BATTERY & CHARGE	
DC voltage	48 Vdc
Maximum current	80 A
Maximum load current	25 A
Type of batteries	Gel, AGM
Charging curve	3-phase (Bulk / Absorption / Float)
Voltage compensation	Dynamic
Battery charge	Programmable (threshold / timing range via AC Grid)
Battery discharge	Programmable (2 thresholds according to grid availability)

GENERAL	
Dimensions (w x h x d in mm)	540 x 440 x 135
Protection category	IP 20
Weight	18 kg
Connectivities	TL (transformless)
Connectors	USB / Modbus / Ethernet - IP (option)
Conditions of use	humidity level: 5 to 90% / T°C: -5 to +40 °C
Standards	EN 62109-2 / EN 62109-1 / EN 62040-1 DIN V VDE V 0126-1-1 (+VFR2013) / VDE-AR-N 4105 / DIN VDE V 0124-100
Warranty	5 years / Extensions to 10 years (optional)

*Maximum possible overload power, grid activated. Refer to the installation manual.

