

INGECON H2 MEGALYZER

- Optimal architecture.
- Minimum LCoH (High efficiency >98%).
- High energy density.
- Advanced grid services.
- Modular design (optimal engineering solution).

STANDARDS



Safety regulations

IEC 62477-1
IEC 61439-1
IEC 60529
2014/35/EC
IEC 61508



EMC regulations

IEC 61000-6-2
IEC 61000-6-4
2014/30/EC



Environmental regulations

IEEE 693
IEC 60721-3-1
IEC 60721-3-2
IEC 60068-2-6
IEC 60068-2-27
IEC 60068-3-3



UL certification

UL1741
CSA C22.2 No.107-1

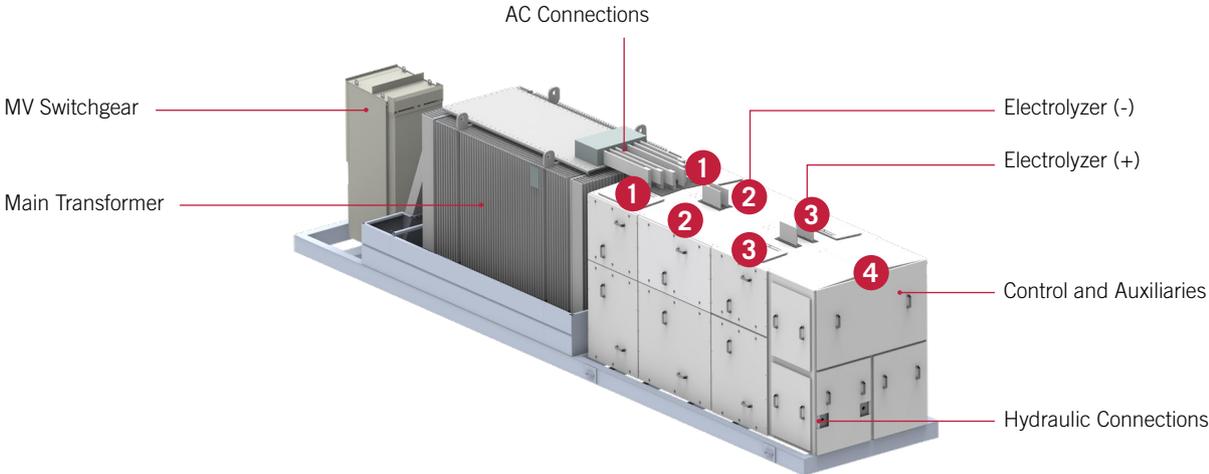


Grid connection

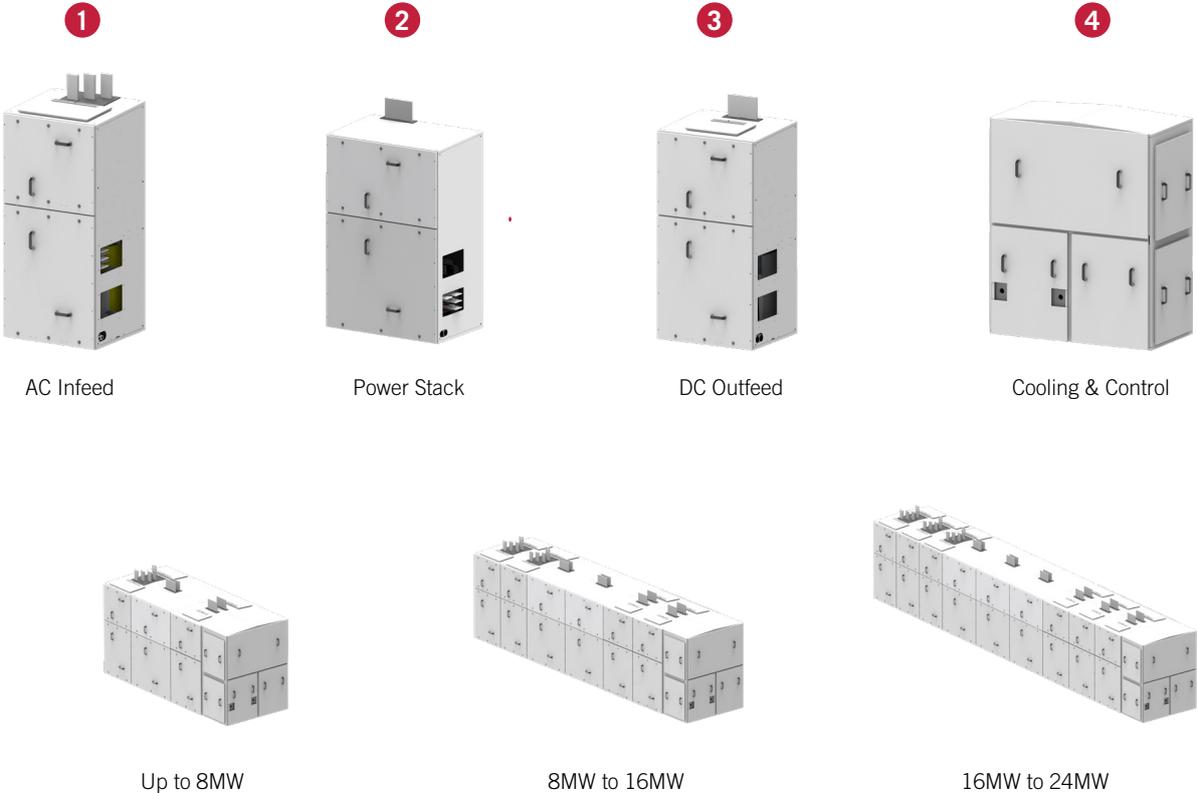
IEEE 519
IEC 61000-3-6
VDE-AR-N
Others

Next-generation rectifier solutions for electrolyzers

OVERVIEW



MODULAR DESIGN - CABINETS



Up to 6 independent electrolyzers.

Specifications included in this datasheet could change without notice. Please contact Ingeteam's sales department in case of any queries.

Up to 8MW

8MW to 16MW

16MW to 24MW

RECTIFIERS

	Up to 8MW	8MW to 16MW	16MW to 24MW
Independent Conversion Lines	2	4	6
Grid rated voltage	750 Vac \pm 10%	750 Vac \pm 10%	750 Vac \pm 10%
Grid rated frequency	50/60 Hz \pm 5%	50/60 Hz \pm 5%	50/60 Hz \pm 5%
Power factor range	0 - 1	0 - 1	0 - 1
Input AC current	2 x 3.75kA	2 x 7.5kA	2 x 11.25kA
Grid Compliance	IEEE519 / IEC61000-3-6 Other grid codes on request	IEEE519 / IEC61000-3-6 Other grid codes on request	IEEE519 / IEC61000-3-6 Other grid codes on request
THD	<1,5%	<1,5%	<1,5%
Current DC	2 x 6kA	4 x 6kA	6 x 6kA
Voltage DC	<1250V	<1250V	<1250V
DC Current ripple	<5% * Extended option <3%	<5% * Extended option <3%	<5% * Extended option <3%
Nominal efficiency at rated conditions	>98%	>98%	>98%
Cooling inlet temperature range	3°C to 40°C Extended option: 45°C	3°C to 40°C Extended option: 45°C	3°C to 40°C Extended option: 45°C
Cooling	Air or Liquid Heat exchanger included	Air or Liquid Heat exchanger included	Air or Liquid Heat exchanger included
Operation Ambient Temperature	-20°C to 50°C Extended option: -40°C	-20°C to 50°C Extended option: -40°C	-20°C to 50°C Extended option: -40°C
Life time	>25 years	>25 years	>25 years
IP Protection degree	IP65	IP65	IP65
Certification	CE UL or CSA on request	CE UL or CSA on request	CE UL or CSA on request
Protection degree	C5H	C5H	C5H

STEP DOWN TRANSFORMER

	Up to 8MW	8MW to 16MW	16MW to 24MW
Medium voltage	Up to 36 kV	Up to 36 kV	Up to 36 kV
Type	KNAN / KFWF	KNAN / KFWF	On request

MV SWITCHGEAR (RMU)

	Up to 8MW	8MW to 16MW	16MW to 24MW
Medium voltage	36 kV class	36 kV class	36 kV class
Rated current	630 A	630 A	630 A
Cooling system	Natural air ventilation	Natural air ventilation	Natural air ventilation
Protection degree	IP54	IP54	IP54
Type	2L1A / OL1A1L / 1L1A / OL1A	2L1A / OL1A1L / 1L1A / OL1A	2L1A / OL1A1L / 1L1A / OL1A
Protections	50N / 51N	50N / 51N	50N / 51N

OVERALL SYSTEM DATA

	Up to 8MW	8MW to 16MW	16MW to 24MW
L x W x H (**)	11240 x 2110x 2600 mm	13900 x 2110 x 3000 mm	Project dependant
Weight	< 25t	< 40t	< 53t
Altitude limits	2000 m	2000 m	2000 m
Transport	1xStandard container	2xStandard container	Project dependant
Auxiliary power supply	400 Vac @ 7.5kW	400 Vac @ 12kW	400 Vac @ 16kW

Notes

(*) At nominal conditions when point of connection (POC) is compliant with IEC 61000-3-6

(**) Final dimensions will be shared according to project

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