BluEnergy Revolution

PEM electrolyzer

MOSE 3.0

7 kW

Bluenergy Revolution MOSE electrolyzer (MOdular Smart electrolyzer) is a standardized, parallelizable, plug-in system able to produce 5.0 quality pure hydrogen. The MOSE is designed to comply with ATEX rules, it's equipped with an integrated dryer, water management system and remote control.

Stack Technology	-	PEM
H_2 production	g/h	12.4 – 124.0
Operating Pressure	bara	30
H_2 Purity	%	99.999% (5.0)
Width	mm	800
Length	mm	800
Height	mm	2300
Weight	kg	500
H_2O quality	-	Type 3
H_2O pressure	bara	1 – 4
H_2O consumption	l/h	Up to 1.5
Rating	-	IP 54
Operating voltage	Vac	400 Vac/3P+N+PE
Nominal power consumption	kWh/kgH_2	55
Max. Power	kW	8.5
Max. Current	A	20
H_2 delivery	Inch	1/4 OD
H_2 vent	Inch	1/2 OD
Control by	-	HMI, mod-bus
Cooling	-	Air cooled
Certification	CE marked, according to the machine directive 2006/42/CE	
Ambient operative humidity	Up to 90% non-condensing	
Ambient operative temperature	°C	5 – 45

CE

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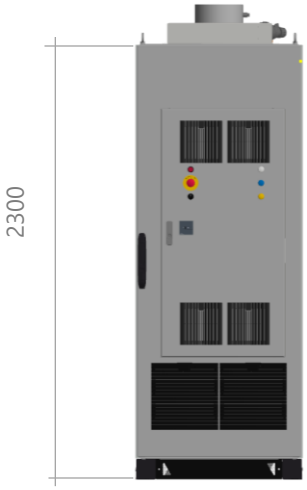
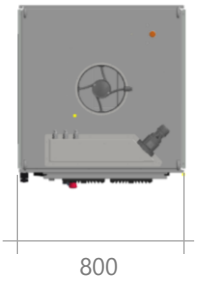


Weight: ~500 kg



* Bludemi demineralized water production apart

Design

- UNI EN ISO 12100:2010
- UNI EN ISO 12849-1:2016
- CEI EN 60204-1:2016
- UNI EN ISO 12850:2015
- UNI EN ISO 14120:2015
- UNI EN 1127-1:2019
- CEI EN IEC 60079-10-1
- CEI EN 60079-14

Applications

- Power-to-gas
- Heat Treatment
- Fuel Industry
- Power Plant

Plug-in system

The MOSE system has been designed to ease the integration, comprising all the features that are required for the safe production of hydrogen: internal deoxo and dryer (5.0 H_2 quality), internal ventilation (no ATEX area generated), internal temperature management.

INDOOR INSTALLATION

- Internal forced ventilation conveyed outside to manage purges and leakages;
- ➢ MOSE does not display H_2 leakage sources thus it won't generate ATEX zones indoor.

OUTDOOR INSTALLATION

- External lightweight cover protection from elements and dedicated area assessment;
- ➢ MOSE can be easily integrated outside (IP54).

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