



\*NI refers to Standard Reference Atmosphere acc. DIN 1945-1 (p = 1,0 bar and t = 20°C)

## PRODUCT DESCRIPTION:

The eRELEASE product range from H<sub>2</sub>-Industries is designed to release chemically bonded hydrogen from a Liquid Organic Hydrogen Carrier (LOHC) and convert it into electrical and thermal energy using integrated fuel cells. By specially developed catalysts, the hydrogen is released from the carrier medium and transferred to SOFC fuel cells. The heat required for the process is covered by the heat released in the fuel cell

process. The waste heat from the fuel cell enables autonomous operation

In conjunction with H<sub>2</sub>STORAGE tank systems from H<sub>2</sub>-Industries, hydrogen supply is also ensured for larger consumers. The plant size depends on the specific application and circumstances at the site. The System is installed in 20 ft. Container modular design and is therefore still Mobile in the future.

## GENERAL INFORMATION:

|                          |                          |
|--------------------------|--------------------------|
| Dimensions in mm (LxWxH) | 6,058 x 2,438 x 2,591 mm |
| Weight                   | ca. 30,000 kg            |

## INPUT PARAMETERS:

|  |   |
|--|---|
| LOHC + (enriched with H <sub>2</sub> ) | ca. 157 NI / h (177 l / h at T <sub>in</sub> = 180°C) |
| Equals H <sub>2</sub>                  | ca. 9 kg / h  |
|  | ca. 100 Nm <sup>3</sup> / h                           |

## OUTPUT PARAMETERS:

|                        |  |
|------------------------|--|
| LOHC - (unloaded LOHC) | ca. 129 NI / h (145 l / h at T <sub>out</sub> = 180°C) |
| P <sub>el</sub>        | ca. 144 kW   |
| P <sub>th</sub>        | ca. 40 kW  |

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