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Development of Mass-Produced Fuel Cell Mobile Generators

Denyo Co., Ltd.
Head Office: 2-8-5, Nihonbashi-horidomecho,
Chuo-ku, Tokyo

Denyo Co., Ltd. has initiated the development of a mass-produced fuel cell mobile generator with a power output of 7kW, using a newly developed general-purpose fuel cell module (hereafter referred to as "FC module") by Toyota Industries Corporation.

The adopted FC module incorporates the second-generation fuel cell stack used in Toyota Motor Corporation's fuel cell EV "MIRAI," along with packaged components such as an air compressor and a hydrogen circulation pump.

Recognizing that fuel cells using hydrogen for power generation are an effective means of reducing CO2 emissions, which contribute to global warming, our company has been developing and conducting verification tests on mobile fuel cell generators since 2019. Based on the insights gained from these tests, we have independently developed a cooling structure for the FC module and are working on developing a mass-produced fuel cell mobile generator that is 20% smaller and lighter by volume. This compact and lightweight design improves portability, facilitating smooth transportation and easy setup at outdoor sites, thereby enhancing operational efficiency.



Verification tests model

Becoming Compact & Lightweight



Mass-produced model