



Media Information

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SYM Proudly Introduce the World's First Aluminum-ion e-Scooter



Electrify the New Era

Aluminum-ion Range-extender Technology (ART) EV: PE3 concept

The ART is an ideal solution to enjoy emission free daily riding and a promising way to eliminate range anxiety. The PE3 concept is fully electric-feed by the insightful aluminum-ion batteries and can be charged by the combustion engine or via the charging socket.

The PE3 concept is 100% driven by an electric motor. Besides the petrol-powered engine that builds in a compact high efficiency generator, a charging socket is mounted as well. The fully charged aluminum-ion batteries offer zero emission commuting distance. When the intelligent energy management system detects the battery power is low or the vehicle is under heavy load, it will start the engine to generate electricity to power the electric motor and charge the batteries at the same time. The PE3 concept's petrol engine is altered from a SYM's Z.R.S.G. engine which has no starter motor, so that it can provide seamless engagement when being activated.

The leading aluminum-ion battery technology was innovated by "Aph ePower" established in Kaohsiung City, Taiwan. Aph ePower will be the first company to commercialize aluminum-ion battery. This technology has plenty of advanced features:

- **Eco-friendly recyclable materials**
- **Long life span**
- **Wide working temperature range**
- **Fast charging and discharging rate**
- **Highly safe and steady chemical characteristics**

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