

ELIY Power Unveils World’s Safest Advanced Lithium-Ion Battery No Smoking, Firing and Bursting With Nail Penetration Test

December 24, 2010

Tokyo, Japan, December 24, 2010 – ELIY Power Co., Ltd. (ELP), Japan’s leading supplier of lithium-ion batteries (LiB), today announced that it had developed a world’s safest advanced large-size LiB for electric power storage ,using lithium iron phosphate as the cathode material.

ELP has leveraged its experience of mass production and micrometer-scales structure control technologies to develop this new LiB. These technologies have achieved to control active materials at tenfold resolution. As a result, compared with our previous products, energy density is improved about 10% and available temperature of continuous use is widen from -20°C to 60°C. Also, both of cycle performance at high temperature and charge performance at low temperature are improved, the new LiB can make a powerful contribution to the applications with large-scale LiB at high temperature and low temperature ranges.

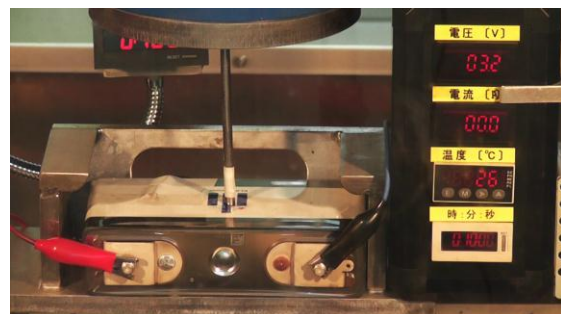
ELP has applied some patents for these technologies. Additionally, Sumitomo Osaka Cement Co., Ltd. developed this lithium iron phosphate and optimized it for LiB with ELP jointly.

Safety is a primary concern in ELP’s activities. ELP believes this new LiB is a world’s safest advanced large-size LiB. According to the nail penetration test, it is confirmed that there are no smoking, firing and bursting. And it is also confirmed that there are no rapid –burning and explosion, even if setting fire cells with heating outside by burners.

ELP is planning to start mass production of this new LiB in Kawasaki plant since 1H/2011. Furthermore, ELP has a plan to start construction on a second facility in Kawasaki in 1H/2011. The capacity of the new facility will be 1million cells a year.



< Large Li-ion Battery Cell >



< Nail potential test (after 10 min) >