

LS ULTRACAPACITOR

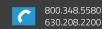
Additional Applications

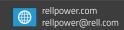












AGVs



In Clean room for Semiconductor or Display lines

1. Rack Master or Stocker

- 1) Equipment: Rack master for Display Panel
- 2) The purpose of using Ultracapacitor
 - Saving electricity cost by using regenerative energy
- 3) Equipped ultracapacitor
 - 4 ~ 20 parallel of 403V 4F modules
 (the number of parallel is depending on the size of the Rack)



403V 4F module

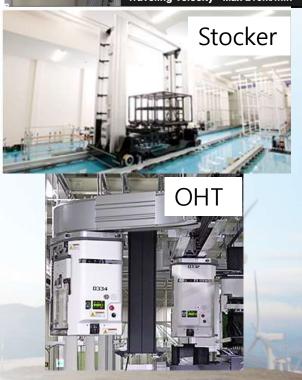
2. OHT (Overhead Hoist Transfer)

- 1) Equipment: Moving semiconductor Foup
- 2) The purpose of using Ultracapacitor
 - Saving electricity cost by using regenerative energy by replacing electrolytic capacitor to ultracapacitor (saved around 15%)
- 3) Equipped ultracapacitor
 - Few series of 3V 100F cells (size is important)



100F cell







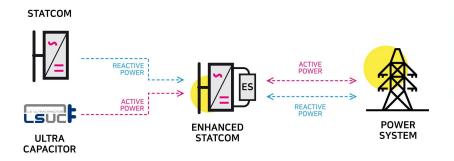
Enhanced STATCOM



Inertia improvement for power grid for renewable energy source by supplying active power

♦ Concept:

- Renewable energy such as wind & solar power has low inertia compared to the conventional energy such as fossil & nuclear
- To cover this weakness of renewable energy source,
 the necessity of energy storage to supply active
 power is getting increased
- Ultracapacitor is the best energy storage device for active power due to its great power density





Recommended module





LSUM 051R3C 0166F EA

LSUM 108R0C 0083F YD3P

X STATCOM: Static Synchronous Compensator

X Active power: actual power which is really transferred to the load

X Reactive power: the imaginary (non-real) power



Portable Medical Equipment



Improving safety and power quality by ultracapacitor's high power

◆ Customers : Europe, Korea

♦ Purpose :

- Supplying high power to mobile medical equipment such as portable X-ray for on-site examination
- Ensuring safety of medical applications, vital for patients

♦ Advantages :

- Reducing maintenance fee

 (Longer longevity than conventional battery)
- Minimizing the size of the portable equipment



Recommended products





