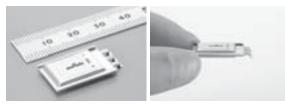
Features

1. Small and slim package (e.g. 21.0×14.0×3.2mm)



- 2. High power Higher allowable current than any battery or conventional
- 3. High energy (High rated voltage and High capacitance) Flexible discharge 400µAh - 1.5A

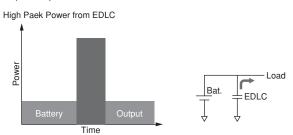
- 4. High reliability
 - Characteristic degradation is reduced by airtight package and optimized electrochemical system
- 5. Low leakage current: less than 10µA @96hrs
- 6. Long cycle life exceeding 100k cycles Maintenance free energy device with flexible charge-discharge profiles
- 7. Wide operation temperature range: -40 to 70°C
- 8. Low ESR at lower temperatures High output or large current charge-discharge is available even at low temperatures where battery output decreases.



Benefits and Applications

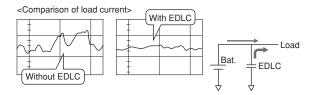
1. Peak Power Assist

Assist the high peak load up to hundreds of milli-seconds Improve performance of end sets!!



2. Battery Peak Load Leveling

Quick Charge and Discharge of High Energy Improve operation stability, quality and reliability!!



<Benefits>

- · Reduce battery load and improve cycle life
- · Enable the use of lower power battery or reduction of the number of series connections
- · Enable the use of high peak load applications without high power battery

<Applications>

LED flash (DVC, DSC, smart phones), Smart meters (telecommunication system, valve operation, etc), e-paper applications, door lock, laser applications (infrared, etc), Remote Keyless Entry (RKE), etc.

<Benefits>

- · Secure power line from large load change and power
- · Secure battery power down at lower temperatures <Applications>

Tablet PC, Smart meter, Point of sale (POS) equipment, Handy terminal, USB/MHL bus power, small motor applications, GPS/GPRS tracking system, portable audio, power tools, fuel cells, primary cell equipment, etc.

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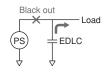
3. Backup Applications

High power backup!!

Emergency power from EDLC

Black out

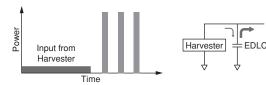
Time



4. Energy Harvesting Systems

Maintenance-free energy storage device with flexible charge -discharge

Prolong cycle life and flexible change-discharge



<Benefits>

· Quick and high power backup is available

<Applications>

Point of sale (POS) equipment, Handy terminal, Smart meter (Last Gasp), and professional use applications which need communication system backup or data backup

<Benefits>

- · Small energy loss because of low ESR
- · Can be used at wide temperature range

<Applications>

Micro and macro energy harvesting systems