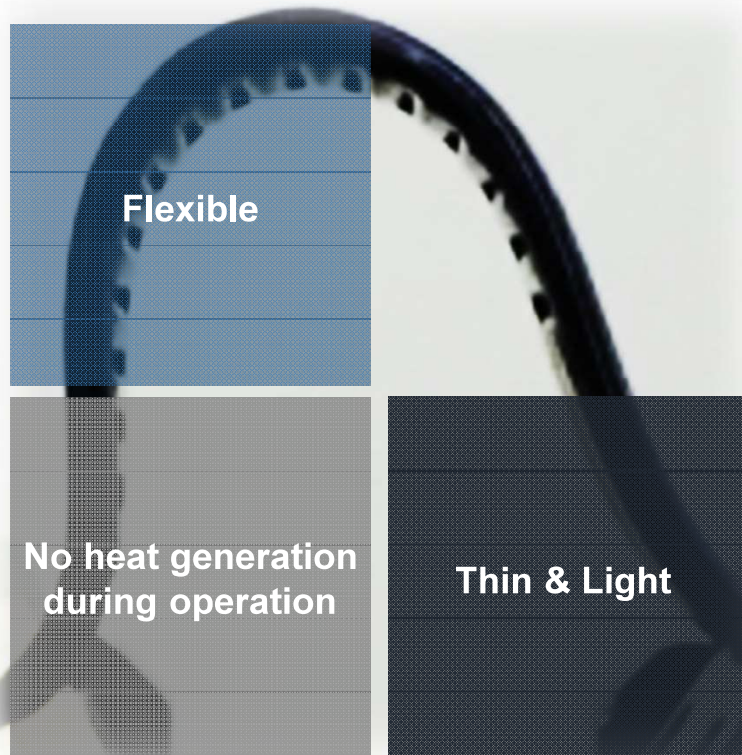
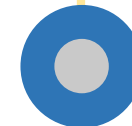


AMOBAND_BENDABLE BATTERY



Wrist devices

- Smart watch
- Health tracker



Head set

- Head set

Outdoor fabric

- Smart clothing
- Footwear



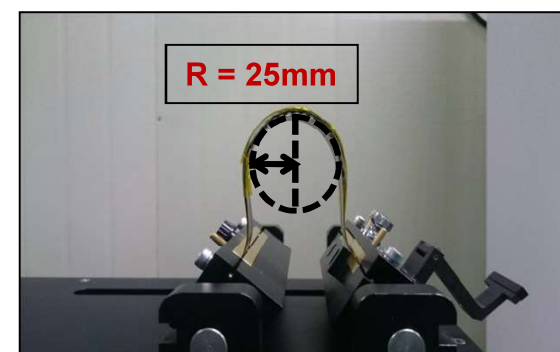
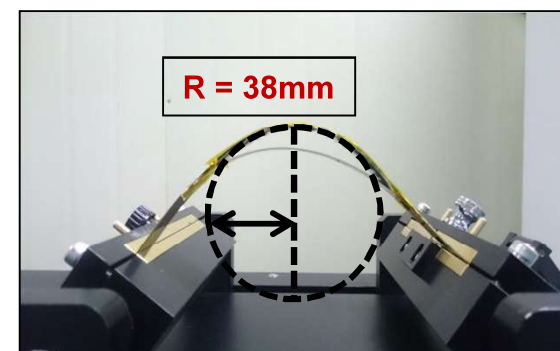
SPECIFICATION

Item		Specification
Nominal Capacity @0.2C		135mAh
Nominal Voltage		3.7V
Charge Condition	Normal Current (Max.)	0.2C (1.0C)
	CC-CV	4.2V
	Cut-off Current	0.05C
Discharge Condition	Normal Current (Max.)	0.2C (1.0C)
	Cut-off Voltage	2.8V
Cycle Life @ 1.0C, DOD80%		80% @ 500Cycles
Operating Temperature	Charge	0°C ~ 45°C
	Discharge	-20°C ~ 60°C
Bending cycles @ R25 ~ R38		5,000
Dimension	Width(mm)	26.0 ± 2.0mm
	Length(mm)	82.0 ± 2.0mm
	Thickness(mm)	2.1 ± 0.5mm
Weight		4.7 ± 0.5
Energy Density	Wh/Kg	106
	Wh/L	145
▣ Bending Cycles @ R25~R38		<5000 times
▣ Twist Cycles @ 10°		<5000 times

AMO



[Bare Cell 135mAh]



SPECIFICATION

Item		Specification
Nominal Capacity @0.2C		650mAh
Nominal Voltage		3.7V
Charge Condition	Normal Current (Max.)	0.2C (1.0C)
	CC-CV	4.2V
	Cut-off Current	0.05C
Discharge Condition	Normal Current (Max.)	0.2C (1.0C)
	Cut-off Voltage	2.8V
Cycle Life @ 0.5C, DOD80%		80% @ 500Cycles
Operating Temperature	Charge	0°C ~ 45°C
	Discharge	-20°C ~ 60°C
Dimension	Width(mm)	26.0 ± 2.0mm
	Length(mm)	183.0 ± 2.0mm
	Thickness(mm)	2.8 ± 0.5mm
Weight		17.5 ± 0.5
Energy Density	Wh/Kg	137
	Wh/L	226
▣ Bending Cycles @ R35~R75		<5000 times
▣ Twist Cycles @ 10°		<5000 times



[Bare Cell 650mAh]

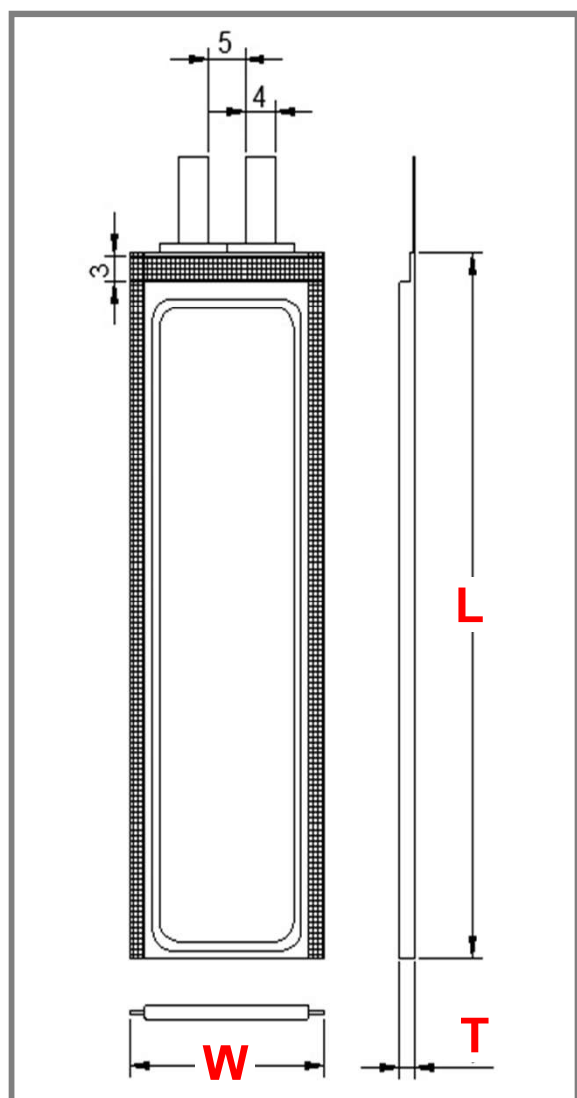
SPECIFICATION

Item		Specification
Nominal Capacity @0.2C		650mAh
Nominal Voltage		3.7V
Charge Condition	Normal Current (Max.)	0.2C (1.0C)
	CC-CV	4.2V
	Cut-off Current	0.05C
Discharge Condition	Normal Current (Max.)	0.2C (1.0C)
	Cut-off Voltage	2.8V
Cycle Life @ 0.5C, DOD80%		80% @ 500Cycles
Operating Temperature	Charge	0°C ~ 45°C
	Discharge	-20°C ~ 60°C
Bending cycles @ R140		3,000
Dimension	Width(mm)	61.0 ± 2.0mm
	Length(mm)	87.0 ± 2.0mm
	Thickness(mm)	2.7 ± 0.5mm
Weight		17.6 ± 0.5
Energy Density	Wh/Kg	137
	Wh/L	236
▣ Bending Cycles @ R35~R75		<5000 times
▣ Twist Cycles @ 10°		<5000 times



[Bare Cell 650mAh]

MECHANICAL DESIGN GUIDE



Available cell dimension range

	Min.	Max.	Tolerance
W idth	16.0 mm	60.0 mm	± 2.0 mm
L ength	70.0 mm	185.0 mm	± 2.0 mm
T hickness	2.0 mm	3.0 mm	± 0.5 mm
Remark	Max. Available Capacity = 1,000mAh		

Standard parts

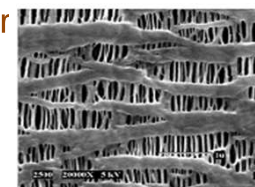
Part No.	Capacity	Cell size (mm)		
	mAh	Width	Length	Thickness
AB21260820135	135	26.0 ±2.0	82.0 ±2.0	2.1 ±0.5
AH28261830650	650	26.0 ±2.0	185.0 ±2.0	2.8 ±0.5
AC27610870650	650	61.0 ±2.0	88.0 ±2.0	2.5±0.5
Remark	Charging Voltage : 4.2 V			

ADVANTAGE

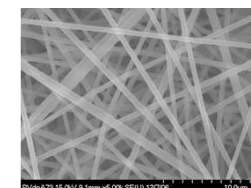


Flexibility

1. Multiple bending and stretching available by nano web separator
2. Prevention of electrode elimination by AMO special binder



▲ Conventional Separator



▲ AMO Separator

※ Cosmetic comparison test regarding binder content

- ① To roll electrode and coating
- ② To bend the battery at 10 times



▲ Conventional battery

VS



▲ AMO special binder

	Special binder content (%)			
	0	1	3	5
Anode				
Cathode				

ADVANTAGE



Safety

1. Prevention of any leakage and swelling in hot temperature **by AMO Separators**
2. Localize and minimize heat damaged area **by Nano-polymer web separator having thermal stable**

※ Hot tip comparison test

Material	AMO (PET+Web)	PP	PE	PP/PE/PP	Ceramic PE	Ceramic non-woven PP
Hole size	1.360 mm ²	7.118 mm ²	6.190 mm ²	12.786mm ²	4.001 mm ²	6.010 mm ²
Tip size	100%	523 %	455 %	940 %	294 %	442 %
Image						

※ Hot box comparison test

Before test	150℃	160℃	170℃	200℃
	PE & PP+PE Shrink	PP+web & ceramic PE Shrink	Ceramic PE Crack	AMO The smallest shrinkage rate