

Applications

The applications for J.Flex are limitless and span diverse industries. From current wearable and IoT applications to unforeseen future technologies, J.Flex has the power to realize the next generation of creative designs.



IT Wearables



Smart Watch | Headset

Fashion



Smart Apparel | Smart Shoes



Health



Monitoring Device | Patch

Military



Vest | Helmet

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CRAFT YOUR ENERGY

J.FLEX

Flexible battery for everyday life



www.jenaxinc.com



JENAX

JESUS | ANAX

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J.FLEX

J.Flex is an ultra-flexible, thin, high-performance rechargeable lithium-ion battery that delivers a breakthrough design and energy solution for wearables and connected devices. J.Flex can be customized and seamlessly integrated into devices to bring out hardware design's full potential. Craft your energy with J.Flex.



FLEXIBLE

Bending test

10,000 times | Bending radius **20mm**

- Can be bent or rolled in any directions
- Bending test of **10,000 times** with bending radius of **20mm**
- Conformable design and comfortable to users



SAFER

Safety tests performed

No fire

- **Gel polymer electrolyte** prevents leakage
- Compliant with IEC 62133 and UNDOT 38.3
- **No Leakage, No Smoke, No Fire & No Explosion** on safety tests performed



RELIABLE PERFORMANCE

Capacity

Bent ≈ Non-Bent

- Capacity of 10,000 times bent battery comparable to capacity of non-bent battery
- Cycle retention rate at **84%** after 10,000 times of bending



CUSTOMIZABLE

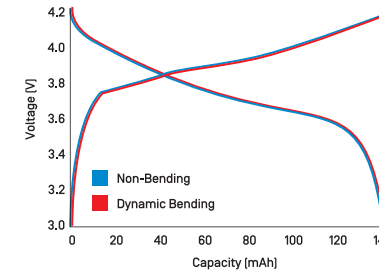
As thin as

0.5mm

- Diverse sizes and capacities as thin as **0.5mm**
- Optimize use of hardware space and deliver energy
- Free designers and engineers to create highly appealing products

Dynamic Bending

The test tracks the charge and discharge performance of batteries in two different states: a. Non-bending b. Dynamic bending (10,000 bends from flat to 20mm in radius)



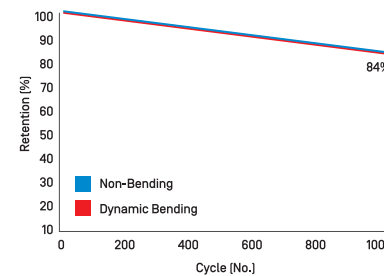
Safer Technology

Semi-solid electrolyte delivers increased safety to users as it prevents leakage when the battery is punctured.

- **Safety tests performed:** cutting, nail penetration, salt-water immersion, and more.
- J.Flex safety videos are available on Youtube.

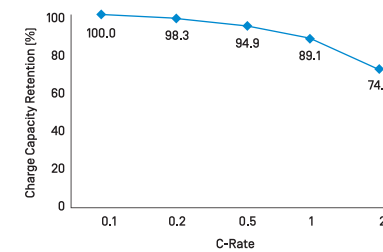


Cycle Life



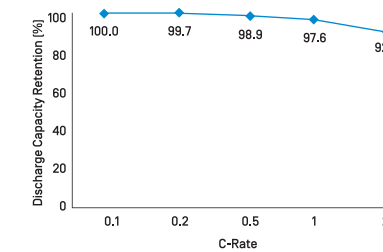
After 1,000 cycles, discharge capacity retention rate of the bent battery shows almost no difference with non-bent battery. [Bending radius 20mm]

Charging Rate



Test Conditions:
a. Charge: [cc] 0.1/0.2/0.5/1.0/2.0-rate, end condition 4.25V
b. Discharge: [cc] 0.2C-rate to 3.0V

Discharging Rate



Test Conditions:
a. Charge: [cc/cv] 0.2C-rate 4.25V, end condition 0.1C-rate
b. Discharge: [cc] 0.1/0.2/0.5/1.0/2.0-rate, end condition 3.0V

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J.FLEX Lithium-Ion Rechargeable Battery

Model number	3183
Dimension	31 x 83 x 0.7mm
Capacity	60mAh
Nominal voltage	3.8V
Operating voltage	3.0V - 4.25V
Standard discharge current	12mA
Maximum constant discharge current	120mA
Standard charge	1.0C[0.1C] to 4.25V
Operating temp discharge	-20 - 60°C
Operating temp charge	0 - 45°C
Operating temp storage	-20 - 20°C
Cycle life	>80% @1,000cycle

For Pilot Production

Sizes available: 20 x 20mm - 100 x 100mm | Capacity available: 10mAh - 2,000mAh

※ Other sizes and capacities can be discussed

About Company

Founded in
1991

Intellectual property
100+

R&D on flexible battery
Since 2011

Headquarter in
South Korea

Jenax is a pioneer and manufacturer of the world's first ultra-flexible customized battery solution. With its mission to be the foremost company providing innovative energy solutions for everyday life, it continues to invest and develop safer and more reliable battery technology. Recognized as a leading player in flexible battery market, Jenax partners with innovative companies across multiple industries in creating next-gen devices that enhance every life of users.

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The Netherlands



Elektrostraat 17
NL-7483 PG Haaksbergen

T: +31 (0)53 573 33 33
F: +31 (0)53 573 33 30
E: nl@texim-europe.com

Belgium



Zuiderlaan 14 bus 10
B-1731 Zellik

T: +32 (0)2 462 01 00
F: +32 (0)2 462 01 25
E: belgium@texim-europe.com

UK & Ireland



St. Mary's House, Church Lane
Carlton Le Moorland
Lincoln LN5 9HS

T: +44 (0)1522 789 555
F: +44 (0)845 299 22 26
E: uk@texim-europe.com

Nordic region



Sdr. Jagtvej 12
DK-2970 Hørsholm

T: +45 88 20 26 30
F: +45 88 20 26 39
E: nordic@texim-europe.com

Germany North



Bahnhofstrasse 92
D-25451 Quickborn

T: +49 (0)4106 627 07-0
F: +49 (0)4106 627 07-20
E: germany@texim-europe.com

Germany South



Martin-Kollar-Strasse 9
D-81829 München

T: +49 (0)89 436 086-0
F: +49 (0)89 436 086-19
E: germany@texim-europe.com

Austria



Warwitzstrasse 9
A-5020 Salzburg

T: +43 (0)662 216 026
F: +43 (0)662 216 026-66
E: austria@texim-europe.com

Italy



Via Matteotti 43
IT-20864 Agrate Brianza (MB)

T: +39 (0)39 971 3293
F: +39 (0)39 971 3293
E: italy@texim-europe.com