EnerCera

Expand what's possible:

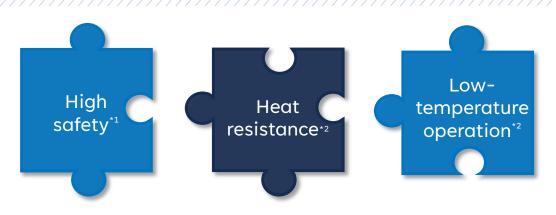
Smaller, Lighter, Thinner

Rechargeable Lithium-ion Battery



Thickness: 1.3 - 2mm Weight: Less than 1g - 3g





Battery Optimized for Wearable devices, Card devices, RTC backup, etc.

The electrolyte is in such a small amount that even if pierced with a nail, it will not ignite. This is a highly safe battery that you can use and wear without putting strain on the body.

With a thickness of 0.45mm and a weight of less than 1g, the lightweight **EnerCera Pouch** can be used in wearable devices and card-type devices without burdening the body!

The EnerCera Coin, with its high heat resistance and excellent float resistance, is ideal for backup power supplies.

EnerCera, with its various features, enhances product value!

Check the special website for lots of information!

[Contents]

- User guide
- · Mounting method
- Use cases
- · Reference electronic circuits
- · Power supply IC
- · Solutions for energy harvesting

https://enercera.ngk-newvalue.com/en

Lineup

Lineap							
Model Number		• Ultra thin (thickness: 0.45mm) and can be embedded in IC card by hot lamina • Large current output (several 100mA)		• Reflow soldering applicable (ET1210C-H) • No current control required			
		EC382704P-T	EC382704P-Hr	ET382704P-H	ET2016C-R	ET1210C-H	
		+ RADER EnerCera	Mark EnerCera	EnerCera	N-KGK Fairfers	•	
Features		High Power	High heat resistance*1	Fast charging* ²	Reflow soldering unapplicable	Reflow soldering applicable*3	
Point		- Excellent flo			No current control required It resistance and over-discharge resistance		
	Dimensions/Diameter (Without terminals)	38 × 27mm			20mm	12.5mm	
	Thickness (With terminals)	0.45mm			2.05mm	1.3mm	
Bendability		Conforming to ISO/IEC 10373-1 standard No deterioration after bending and torsion tests			-		
Nominal Capacity		27mAh (4.3V) 24mAh (4.2V)	20mAh	20mAh	25mAh	4mAh	
Nominal Voltage		3.8V			2.3V		
Charge	Charging Method	Constant Current (CC) – Constant Voltage (CV) charging		Constant Voltage (CV) charging (No current control required)			
	Charging Voltage	4.3V 4.2V	4.2V	2.7V			
	Standard Charge Current	13.5mA (4.3V) 12.0mA (4.2V)	10mA	-			
Discharge	End Voltage	3.0V		1.5V			
	Standard Discharge Current*4	27mA (4.3V) 24mA (4.2V)	10mA	40mA	2.5mA	0.8mA	
	(Ref.) Peak Discharge Current ^{*5}	560mA	130mA	300mA	60mA	20mA	
Operation temperature		Discharge: -20°C~45°C (Charge: 0°C~45°C)	Discharge: -20°C~60°C (Charge: 0°C~60°C)	-40°C~70°C		-20°C*6~105°C	

- *1 Compatible with hot lamination for IC card manufacturing.
- *2 Can be charged from 0% to 80% capacity in 14min.
- *3 Recommended conditions Max.240°C x 1 time. Please check the user guide for details.
- *4 Current with which nominal capacity can be used
- *5 Voltage drop is less than 0.5V with continuous discharge for 0.1 sec. (at 25 $^{\circ}$ C)
- *6 From -40°C to 105°C for RTC backup applications.

IEC62133-2 certified.
Contents may be changed without notice.

Contact



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