Expand what's possible:



Smaller, Lighter, Thinner



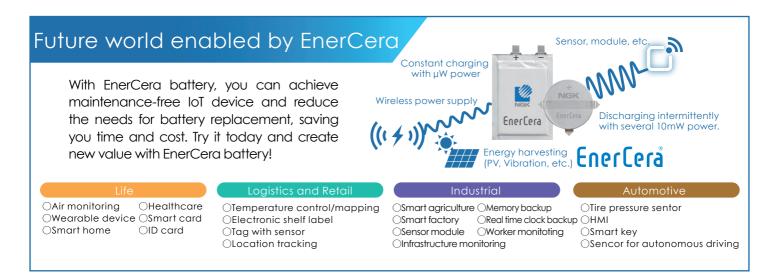
Ultra Thin

Heat Resistance

Low-Temperature operation High Power

Battery optimized for small maintenance free IoT devices

Battery Optimized for Small Maintenance Free IoT Devices



EnerCera Lineup

EnerCera Pouch EnerCera Coin •Ultra thin and bendable pouth type cell •Heat resistant coin type cell (thickness: 0.45mm) (Operating temperature up to 105℃) •Can be embedded in IC card Can be mounted on board by hot lamination process by Reflow soldering •Large current output (several 100mA) Large current output (several 10mA) EC382704P-T EC382704P-Hr ET382704P-H **Product Points** EnerCera EnerCera EnerCera 38mm×27mm 12.5mm Dimensions/Diameter (without terminals) 20mm Thickness (with terminals) 0.45mm 2.05mm 1.3mm 27mAh (4.3V) Nominal Capacity 25mAh 4mAh 24mAh (4.2V) Nominal Voltage 2.3V Constant Current (CC)-Constant Voltage (CV) charging Charging Method Constant Voltage (CV) charging (No current control required) 4.3V Charging Voltage 4.2V 2.7V Charae 4.2V 13.5mA (4.3V) Standard Charge Current 10mA 12.0mA (4.2V) 3.0V 1.5V End Voltage 27mA (4.3V) Discharge Standard Discharge Current* 10mA 40mA 2.5mA 0.8mA 24mA (4.2V) (Ref.) Peak Discharge Currrent** 130mA 300mA 60mA 20mA Conforming to ISO/IEC 10373-1 standard Bendability No deterioration after bending and torsion tests Discharge: -20°C~45°C Discharge: -20°C~60°C Operation Temperature -20℃**6~105℃ -40℃~70℃ (Charge: 0°C~45°C) (Charge: 0°C~60°C) Fast charging**4 High heat resistance Reflow soldering unapplicable Reflow soldering applicable High power

- *1 Current with which nominal capacity can be used. *2 Voltage drop is less than 0.5V with continuous discharge for 0.1sec. (at 25℃) *3 Compatible with hot lamination for IC card. *4 Can be charged from 0% to 80% capacity in 14min. *5 Applicable type under development. *6 From -40℃ to 105℃ for RTC backup applications.
- *7 Recommended conditions Max.240℃×1 time. Please contact us for details. IEC62133 certified. Contents may be changed without notice.



Sales Department Electronic Devices Division Digital Society Business Group





