ECHNO IS UltraBattery for Start-stop car

ECHNO IS UltraBattery



IS for Start-stop car

ECOLOGY × TECHNOLOGY → ECHNO

World's first battery having combined function of Lead-Acid Battery with capacitor

What is Start-Stop Car?
What is ECHNO IS UltraBattery inside?
How does ECHNO IS UltraBattery perform?
Specifications
What about Battery Type for Start-Stop Car?

ECHNO IS UltraBattery is developed as the battery most suitable to Start-Stop Car.

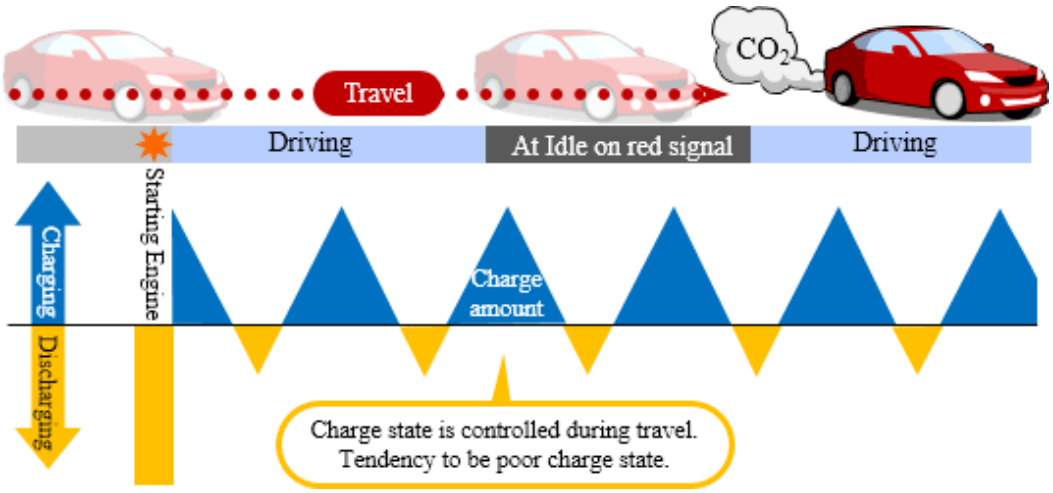
UltraBattery is fused the electrical capacitor performance into the lead acid battery so as to have better charge acceptance and longer life span performance than the conventional battery does.

What is Start-Stop Car?

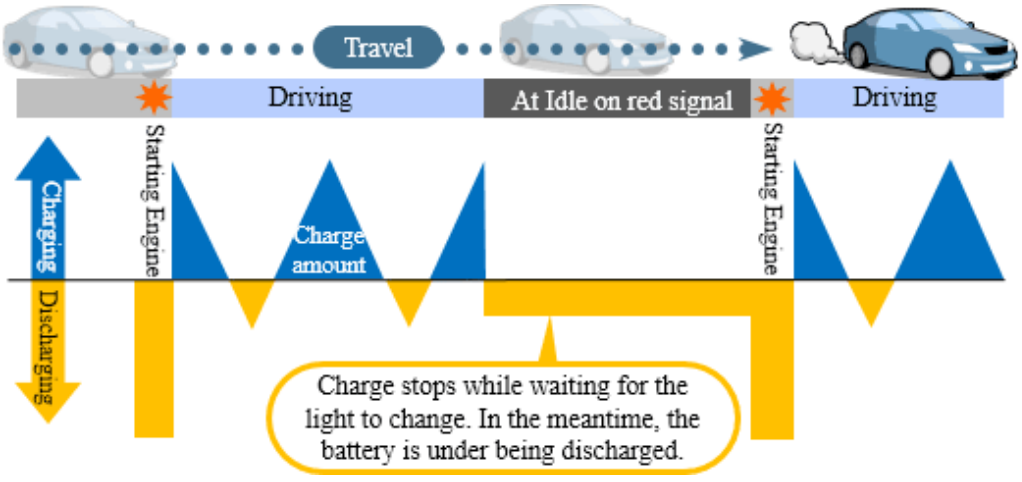
Start-Stop Car can reduce engine load and exhibiting the fuel consumption by controlling how much the alternator generates while travelling and by making the engine shut off at idle when charge state on the battery is well.

What is the difference between the Charge Control Car and the Start-Stop Car about the battery's operating condition.

Charge Control Car



Start-Stop Car



Good points of ECHNO IS UltraBattery

Lead-Acid Battery

Adopting lead as electrode, the device taking charge and discharge with chemical reaction.

Advantage

- Higher capacity
- Stronger to large current discharging

Disadvantage

- Weak to fast charging
- Deteriorate by charge and discharge

Electrical Capacitor

With no chemical reaction, the device taking charge and Discharge, absorbing and Desorbing electrons.

Advantage

- Stronger to fast charging
- Less deteriorate by charging and discharging

Disadvantage

- Low capacity
- Weak to large current discharging under low temperature

Both advantages are combined



UltraBattery

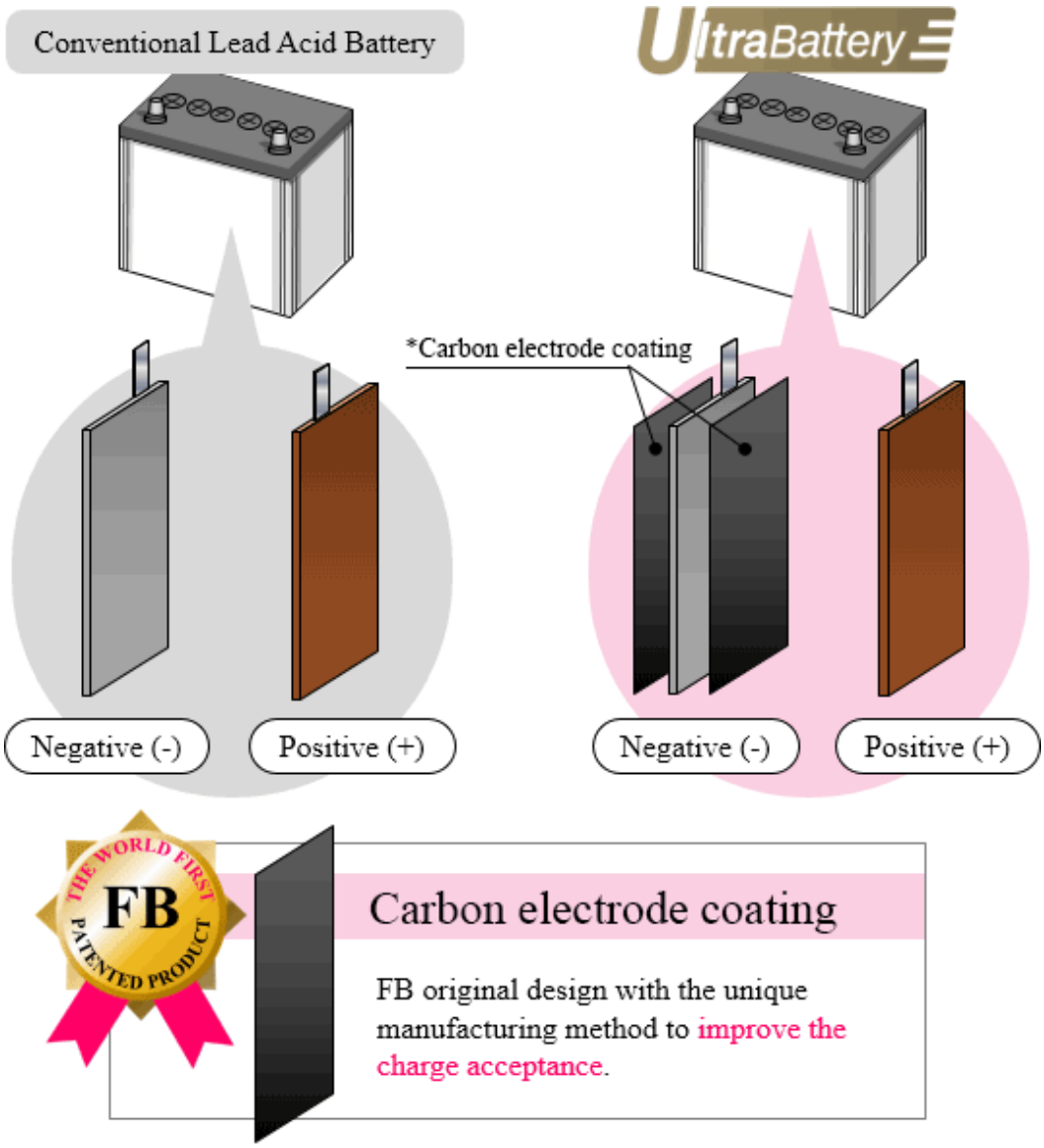
1. **Higher Capacity**
2. **Stronger to large current discharging**
3. **Stronger to fast charging**
4. **Longer life span even under poor charge state!**

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What is ECHNO IS UltraBattery inside?

ECHNO IS UltraBattery has the electrical capacitor function by adopting the negative plate coating the carbon electrode.

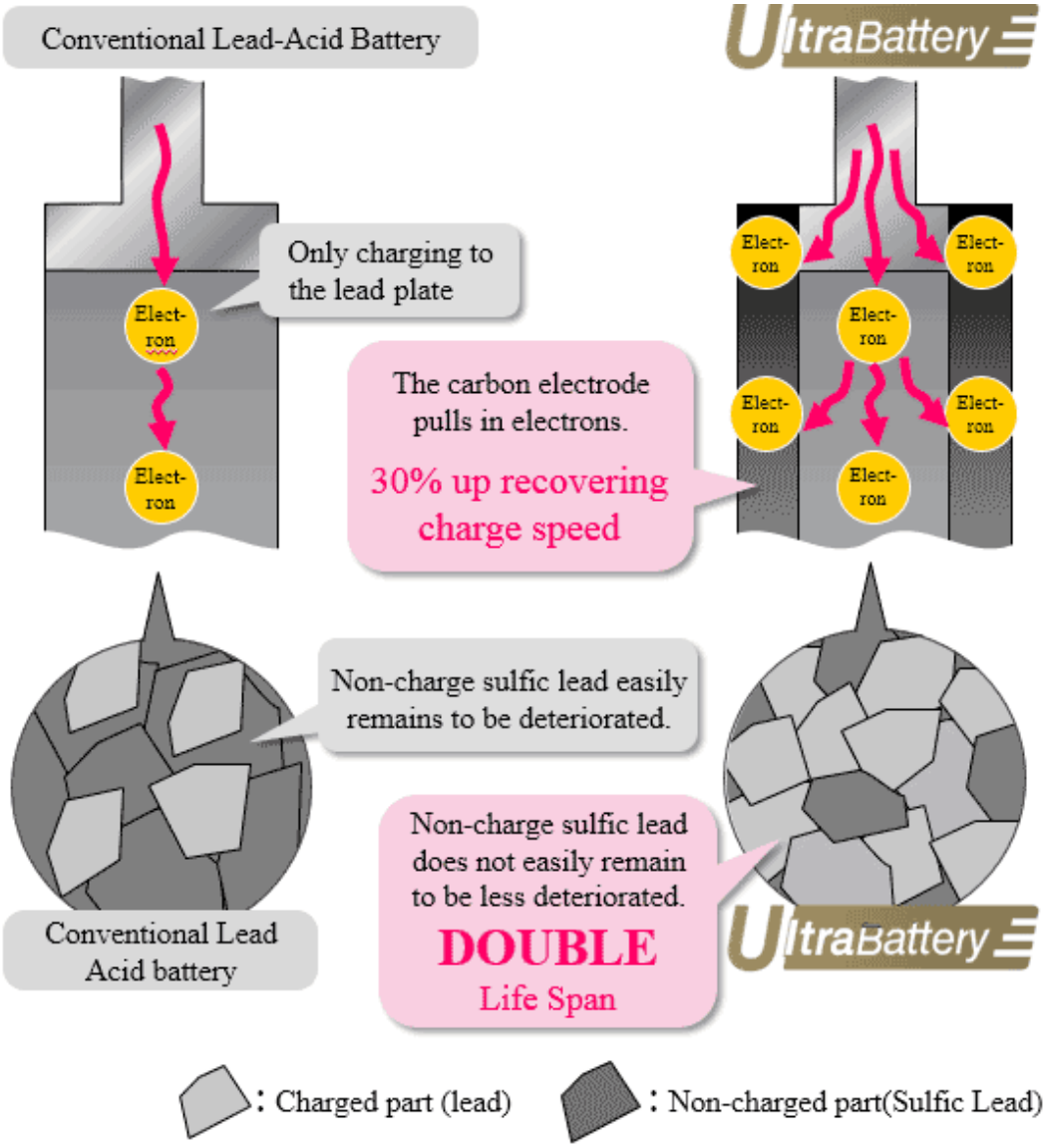
Inside Structure of ECHNO IS UltraBattery



What the function of carbon electrode is like?

- It enables the carbon electrode on the negative plate to pull in the electrons.
- It achieved the speedy recovering charge and thereby longer life span.

Graphical image of the function of carbon electrode while charging

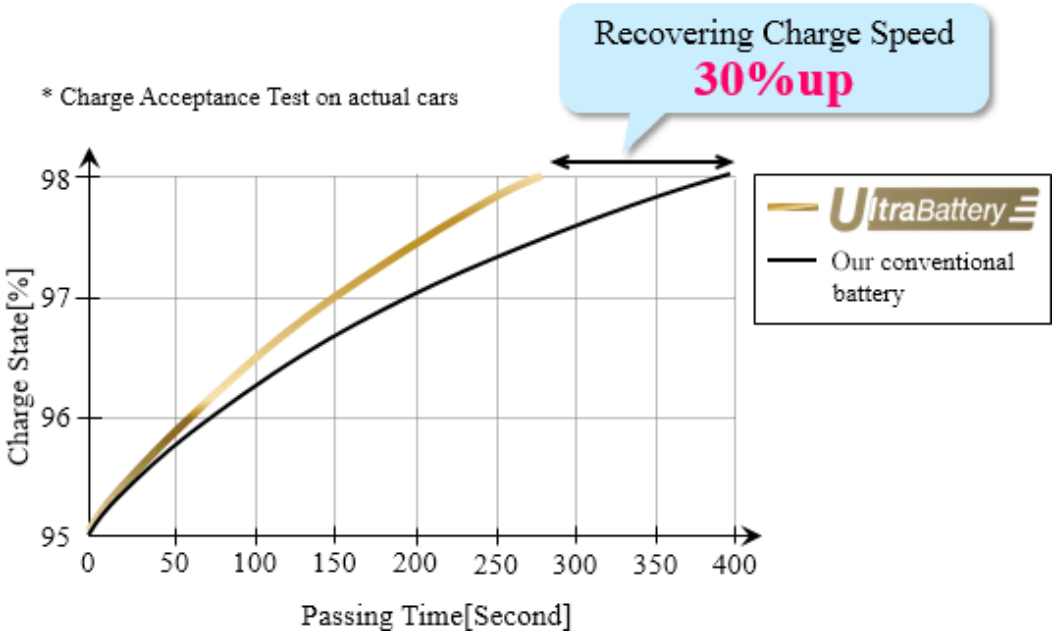


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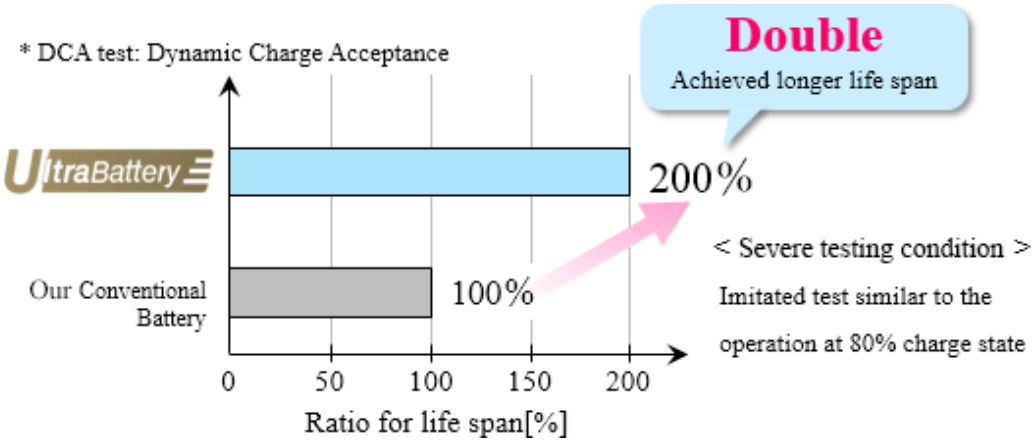
How does ECHNO IS UltraBattery perform?

ECHNO IS UltraBattery successfully achieved 30% speed-up for recovering charge and double long life span comparing to our conventional battery for Start-Stop Car.

Charge Acceptance Performance



Life Span Performance



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Specifications

Type		Voltage (V) (note 1)	5 hour rated capacity (Ah)	Overall dimensions (approx in mm)				Weight (kg) (note 2)
L-type	R-type			Total height	Container Height	Width	Length	
M-42/B20L	M-42R/B20R	12	33	227	200	128	196	10.7
N-55/B24L	N-55R/B24R		36	227	200	128	237	13.2
Q-85/D23L	Q-85R/D23R		54	225	200	172	231	17.2
S-95/D26L	S-95R/D26R		64	225	200	172	259	19.7

(note 1) Nominal voltage

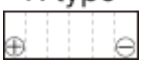
(note 2) Weight including electrolyte volume approx in kg)

Cover configuration
Flat

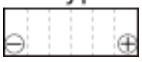
Plate type
Calcium-Lead Alloy

Accessory
Indicator
Carrying Handle
Sticker for service commencement date.
Flame arrester vent plugs
Cap for terminal protection

Terminal position
R-type



L-type



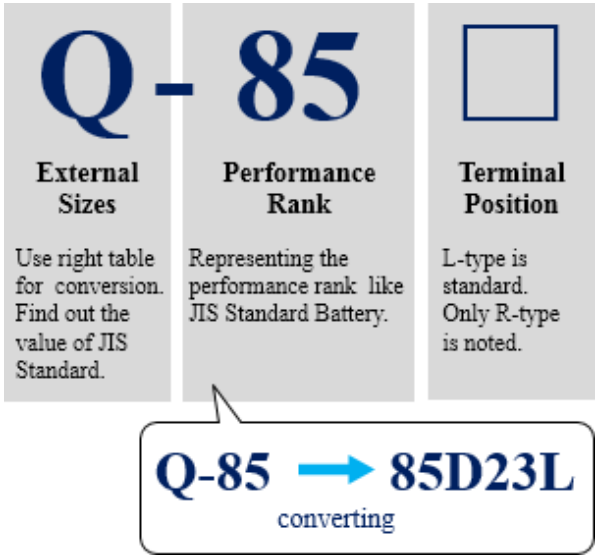
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What about Battery Type for Start-Stop Car?

Let's Learn about Specific Types.

If the conventional battery is installed to your Start-Stop Car, the life span of its battery may be shorter. Therefore, to classify the battery type as the conventional one or Start-Stop one, The Battery Association of Japan regulates the new battery type for Start-Stop Car by SBAS0101:2006

New battery type for Start-Stop Car



External Size No. of Conventional Car	External Size No. of Start-Stop Car
B17	J
B19	K
B20	M
B24	N
D20	P
D23	Q
D26	S
D31	T
E41	U
F51	V
G51	W
H52	X

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