

Super Maintenance Free
NOVA

GREEN ENERGY POWER

SUPER BATTERY

CALCIUM MAINTENANCE FREE

Global Battery Co., Ltd.

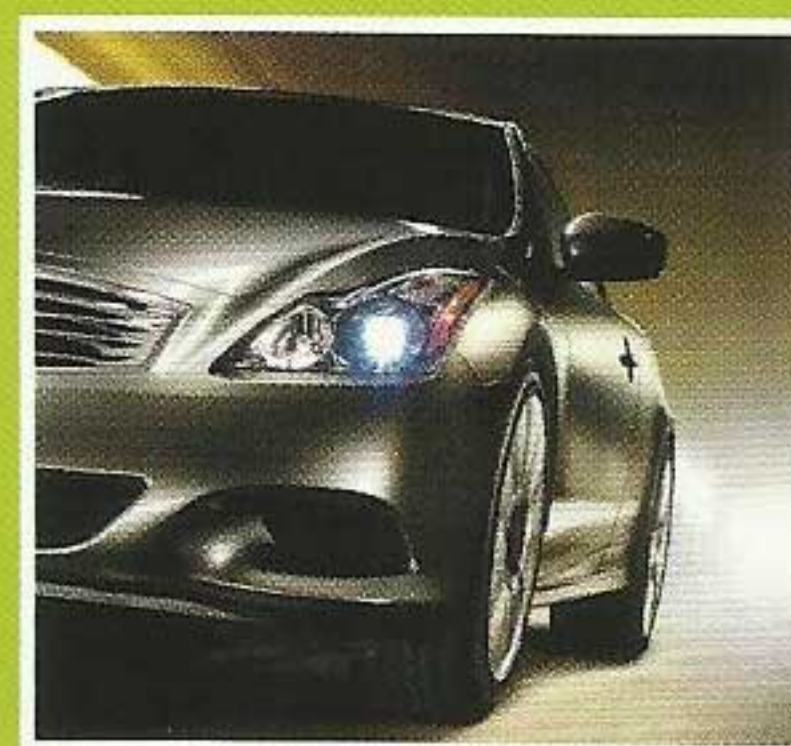
Super Battery

NOVA

GREEN ENERGY POWER

It gives you a quicker start.

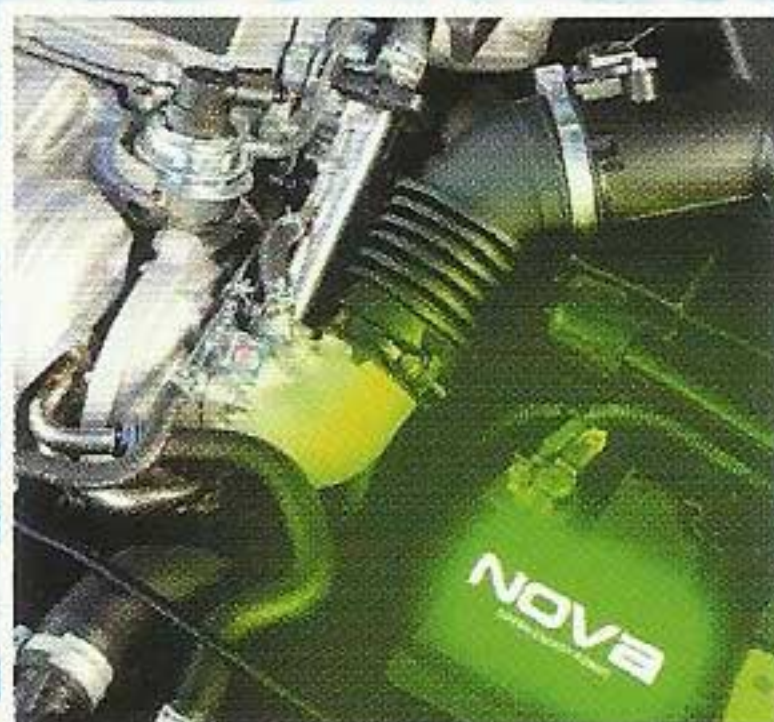
You know how you become No.1?
It's always to be a step ahead.
If you have driven your car in freezing temperatures,
you know the ignition doesn't always start as easily as you want.
What you need is a powerful battery, NOVA,
from the largest battery maker in Korea.
With the overwhelming power of NOVA,
you will always be the first one out of the blocks.



Green Energy Power

It saves you a lot of troubles.

Another secret of No.1 is long-lasting power.
You may travel through the forests, deserts, mud, water, or snow NOVA will set you at ease, with long lasting power, wherever you go.
NOVA, the symbol of power and durability, makes you No.1.



Main features

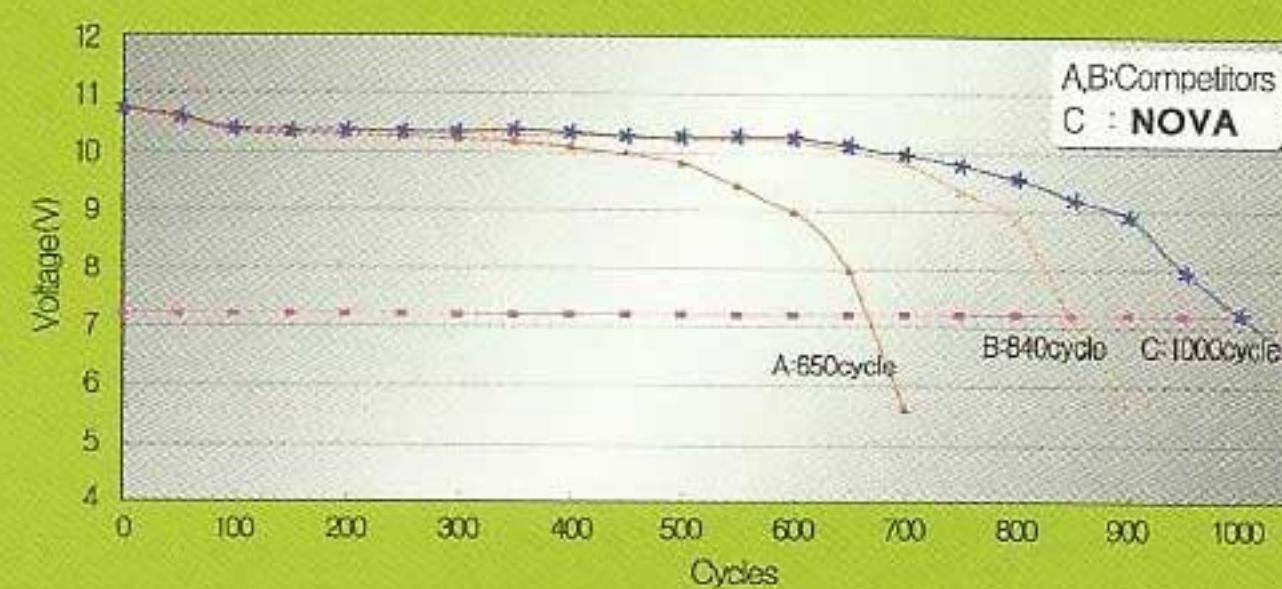
1. Designed to keep a proper level of electrolyte in the upper part of plates via accommodating an acid volume by 10mm or so higher than competitors' to sustain an acid volume in case of water consumption caused by an evaporation at a high temperature.



2. Application of cold-forged bushing & leakage-proof

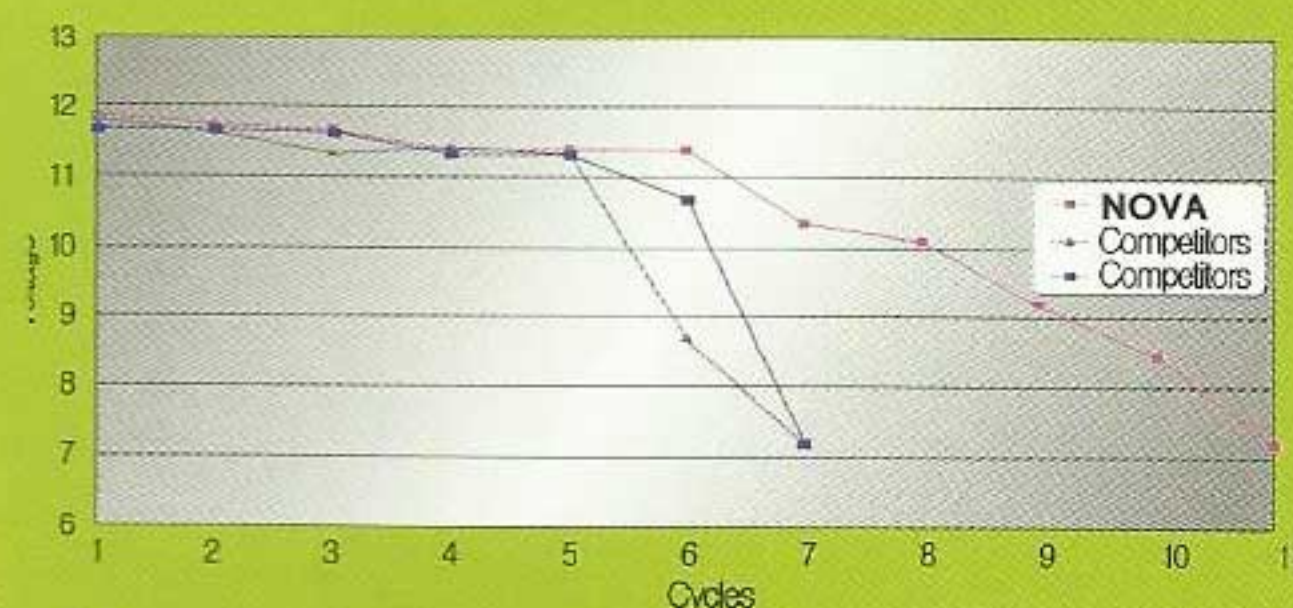


3. An increase of life span via adoption of spun-bonded paper



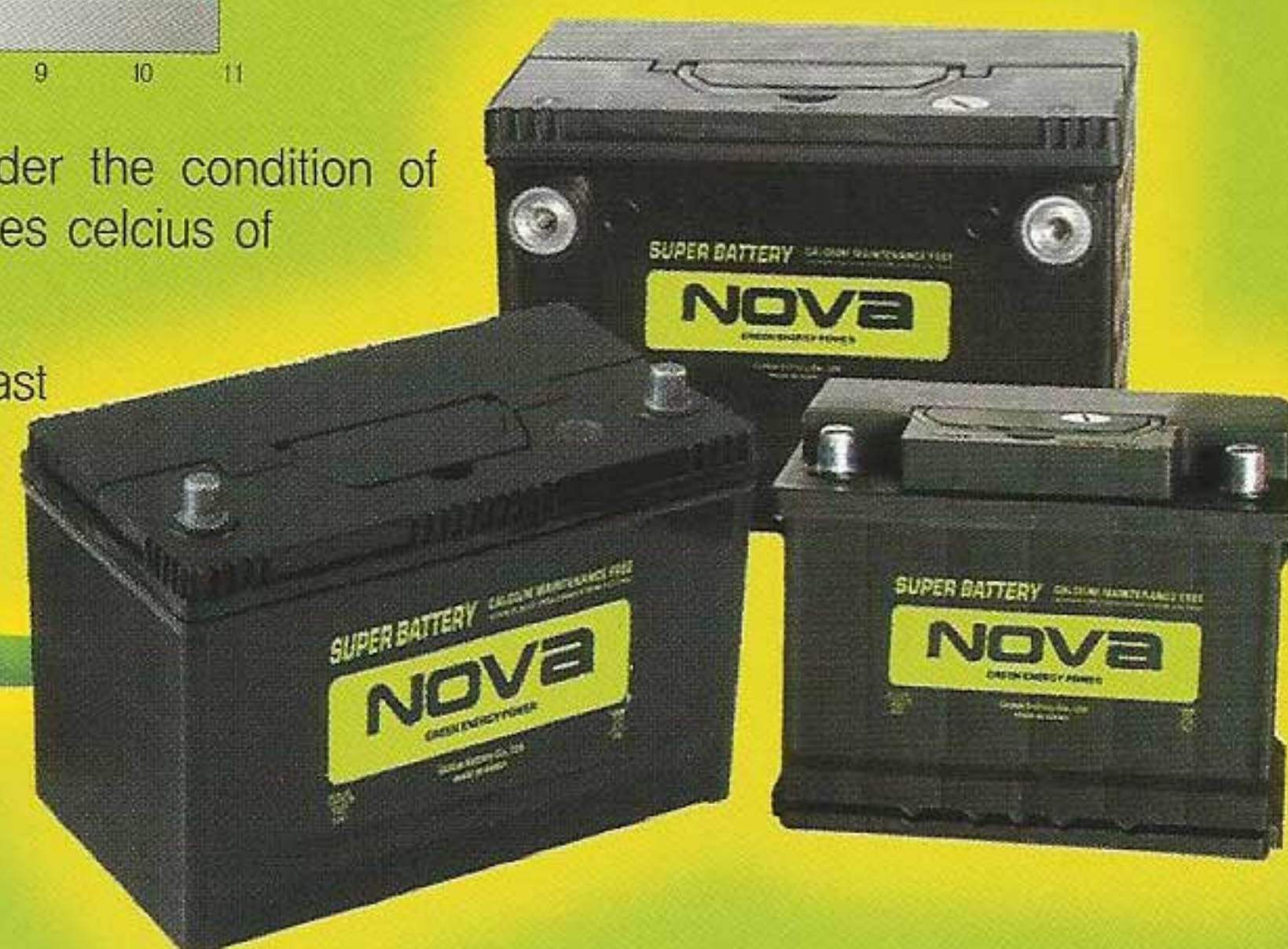
4. An increment of anti-corrosion & life span via an adoption of grid in high Sn(tin)

Ranking in life span under overcharging of high temperaure



Ranking in an anti-corrosion under the condition of specific gravity 1.280 at 25 degrees celcius of an ambient temperature

1. High Sn
2. Low Sn
3. Cast

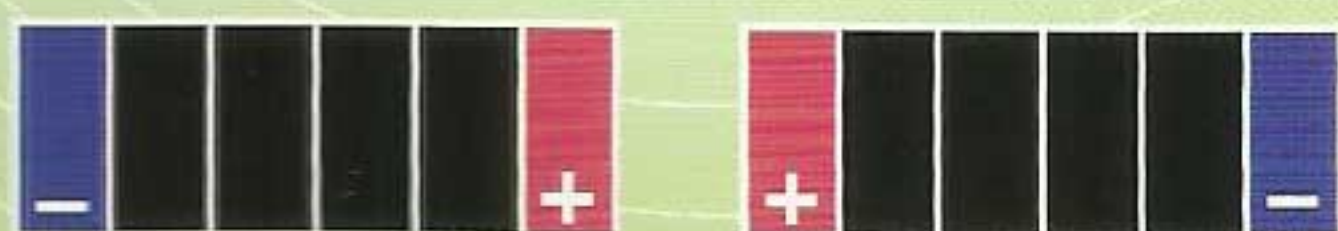




Green Energy

SUPER MAINTENANCE FREE

CELL LAYOUT



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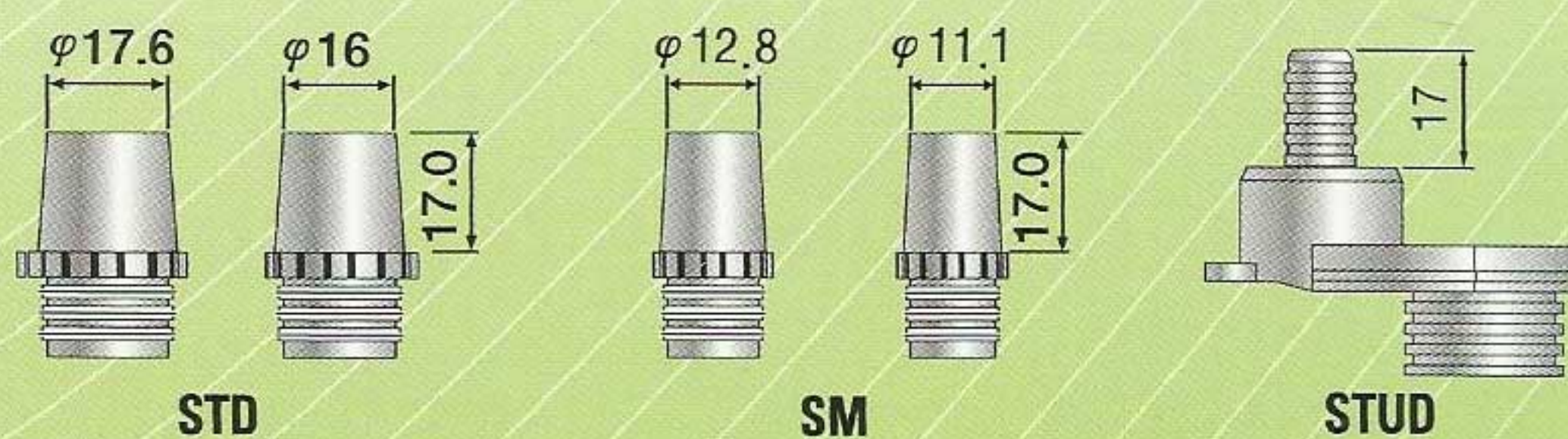
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3

4

TERMINAL



STD

SM

STUD

BASE HOLD DOWN(BHD)



B3

JIS TYPE CALCIUM MF BATTERY

Sealed Maintenance Free Battery (ASIA)

Passenger Car & Light Commercial Battery

Old JIS	New JIS	Dimensions(mm)			Voltage (V)	Capacity(Ah)		RC (Min)	CCA (-18° C)	CA (0° C)	Layout	Terminal	Handle
		L	W	TH		5HR	20HR						
B17	SMF 34B17L	167	127	227	12	27	33	47	280	390	0	SM	P/H
	SMF 34B17R	167	127	227	12	27	33	47	280	390	1	SM	P/H
SMF NS40ZL	SMF 40B19L	187	127	226	12	27	35	49	300	410	0	SM	P/H
SMF NS40Z	SMF 40B19R	187	127	226	12	27	35	49	300	410	1	SM	P/H
SMF NS40ZLS	SMF 40B19LS	187	127	226	12	27	35	49	300	410	0	STD	P/H
SMF NS40ZS	SMF 40B19RS	187	127	226	12	27	35	49	300	410	1	STD	P/H
SMF NX100-S6L	SMF 55B24L	238	129	225	12	36	45	80	430	540	0	SM	P/H
SMF NX100-S6	SMF 55B24R	238	129	225	12	36	45	80	430	540	1	SM	P/H
SMF NX100-S6LS	SMF 55B24LS	238	129	225	12	36	45	80	430	540	0	STD	P/H
SMF NX100-S6S	SMF 55B24RS	238	129	225	12	36	45	80	430	540	1	STD	P/H
SMF 50D20L	SMF 50D20L	202	173	225	12	42	50	85	450	590	0	STD	P/H
SMF 50D20R	SMF 50D20R	202	173	225	12	42	50	85	450	590	1	STD	P/H
D23	SMF 55D23L	232	173	225	12	48	60	100	500	630	0	STD	P/H
	SMF 55D23R	232	173	225	12	48	60	100	500	630	1	STD	P/H
	SMF 75D23L	232	173	225	12	52	65	110	580	710	0	STD	P/H
	SMF 75D23R	232	173	225	12	52	65	110	580	710	1	STD	P/H
SMF N50L	SMF 48D26L	260	173	222	12	40	50	80	420	550	0	STD	P/H
SMF N50	SMF 48D26R	260	173	222	12	40	50	80	420	550	1	STD	P/H
SMF N50ZL	SMF 55D26L	260	173	222	12	48	60	100	500	630	0	STD	P/H
SMF N50Z	SMF 55D26R	260	173	222	12	48	60	100	500	630	1	STD	P/H
SMF NX110-5L	SMF 80D26L	260	173	222	12	56	70	120	600	730	0	STD	P/H
SMF NX110-5	SMF 80D26R	260	173	222	12	56	70	120	600	730	1	STD	P/H
SMF N70L	SMF 65D31L	303	173	225	12	56	70	105	560	690	0	STD	P/H
SMF N70	SMF 65D31R	303	173	225	12	56	70	105	560	690	1	STD	P/H
SMF N70ZL	SMF 75D31L	303	173	225	12	60	75	120	630	760	0	STD	P/H
SMF N70Z	SMF 75D31R	303	173	225	12	60	75	120	630	760	1	STD	P/H
SMF NX120-7L	SMF 95D31L	303	173	225	12	72	90	150	750	880	0	STD	P/H
SMF NX120-7	SMF 95D31R	303	173	225	12	72	90	150	750	880	1	STD	P/H

※ B3 BHD IS AVAILABLE BY CUSTOMER'S REQUEST

Sealed Maintenance Free Battery (ASIA)

Heavy-Duty Commercial Battery

Old JIS	New JIS	Dimensions(mm)			Voltage (V)	Capacity(Ah)		RC (Min)	CCA (-18° C)	CA (0° C)	Layout	Terminal	Handle
		L	W	TH		5HR	20HR						
SMF 1000LA		330	173	240	12	80	100	182	870	1000	0	STD	P/H
SMF 1000RA		330	173	240	12	80	100	182	870	1000	1	STD	P/H
SMF 1000LS		330	173	240	12	80	100	182	870	1000	0	STD	P/H
SMF 1000RS		330	173	240	12	80	100	182	870	1000	1	STD	P/H
SMF N100L	SMF 95E41L	410	175	235	12	80	100	180	830	960	0	STD	R/N
SMF N100	SMF 95E41R	410	175	235	12	80	100	180	830	960	1	STD	R/N
SMF N120L		505	183	240	12	96	120	230	820	950	4	STD	R/N
SMF N120		505	183	240	12	96	120	230	820	950	3	STD	R/N
SMF N150L		508	222	241	12	120	150	300	1000	1130	4	STD	R/N
SMF N150		508	222	241	12	120	150	300	1000	1130	3	STD	R/N
SMF N200L		523	279	248	12	160	200	430	1150	1280	4	STD	R/N
SMF N200		523	279	248	12	160	200	430	1150	1280	3	STD	R/N

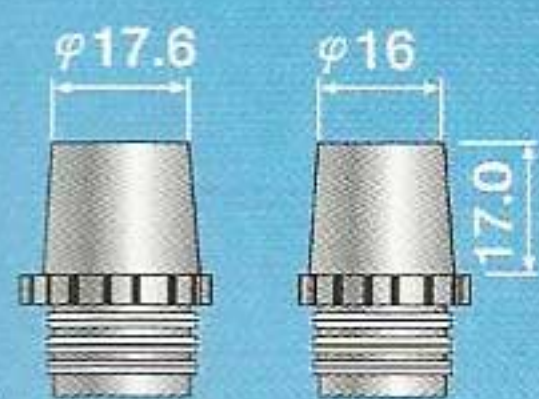
※ B3 BHD IS AVAILABLE BY CUSTOMER'S REQUEST



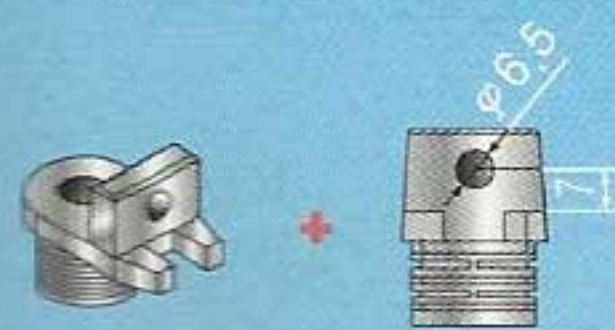
Green Energy

SUPER MAINTENANCE FREE

TERMINAL



STD



FORD



CELL LAYOUT



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1



3



4

BASE HOLD DOWN(BHD)



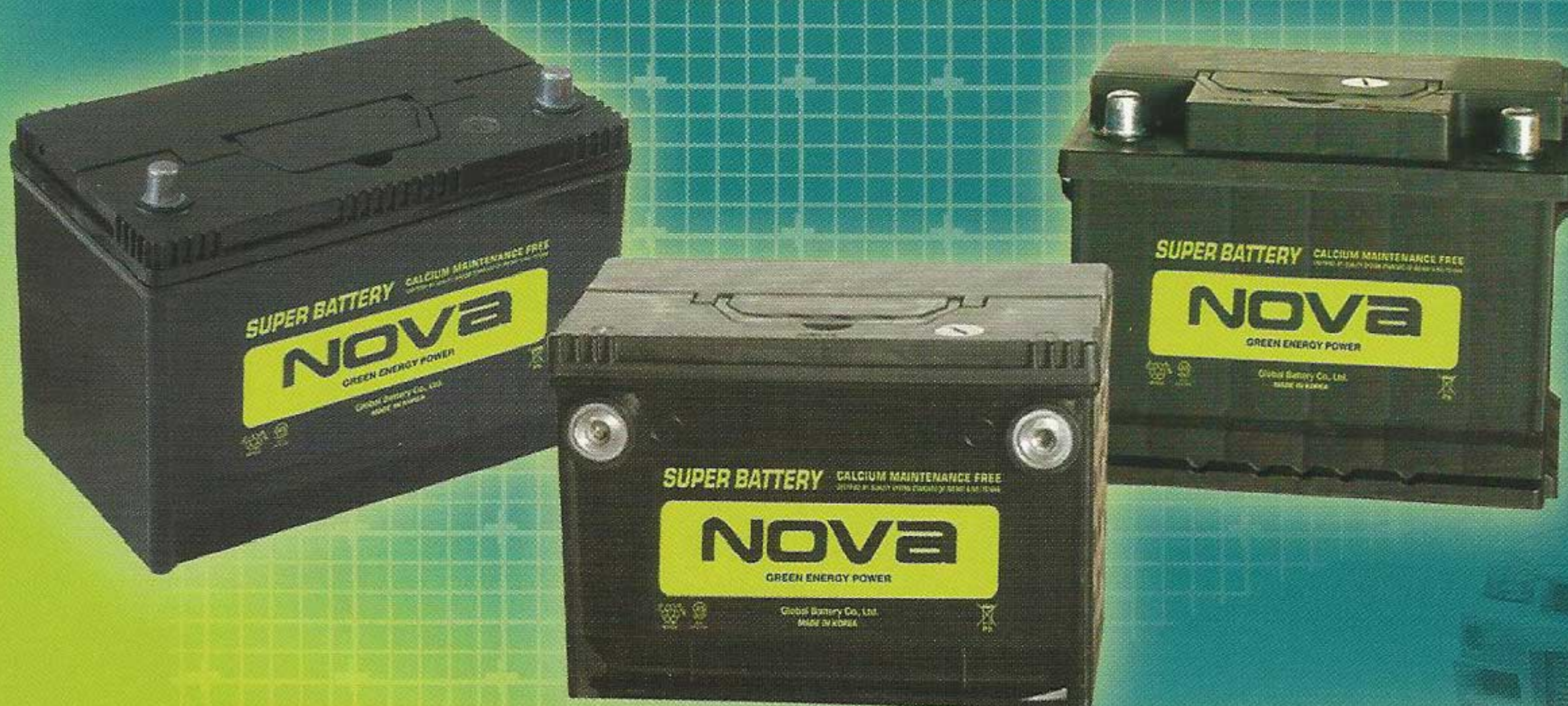
DIN TYPE CALCIUM MF BATTERY

TYPE	Model	Dimensions(mm)			Voltage (V)	Capacity 20HR(AH)	RC (Min)	CCA(-18° C)		Layout	Terminal	BHD
		L	W	TH				SAE	EN			
LO	SMF 54018	175	175	190	12	40	70	350	330	0	STD	B3
LB1	SMF 53529	211	175	175	12	35	52	340	340	0	STD	B3
	SMF 54316	211	175	175	12	43	70	420	420	0	STD	B3
	SMF 54317	211	175	175	12	43	70	420	420	0	FORD	B3
L1	SMF 54459	208	175	190	12	44	71	350	330	0	STD	B3
	SMF 54464	208	175	190	12	44	71	350	330	1	STD	B3
LB2	SMF 54519	245	175	175	12	45	80	420	420	0	STD	B4
	SMF 55040	245	175	175	12	50	86	460	460	0	STD	B3
	SMF 55457	245	175	175	12	54	94	510	510	0	STD	B3
	SMF 55458	245	175	175	12	54	94	510	510	1	STD	B3
	SMF 55459	245	175	175	12	54	94	510	510	0	FORD	B3
	SMF 56220	245	175	175	12	62	100	540	540	1	STD	B3
L2	SMF 55559	245	175	190	12	55	94	480	440	0	STD	B3
	SMF 55565	245	175	190	12	55	94	480	440	1	STD	B3
	SMF 56219	245	175	190	12	62	100	510	480	0	STD	B3
	SMF 56217	245	175	190	12	62	100	510	480	1	STD	B3
	SMF 56048	269	174	226	12	60	100	500	460	0	STD	B9
	SMF 56049	269	174	226	12	60	100	500	460	1	STD	B9
	SMF 57029	269	174	226	12	70	120	600	560	0	STD	B9
	SMF 57024	269	174	226	12	70	120	600	560	1	STD	B9
LB3	SMF 55414	277	175	175	12	54	94	510	510	0	STD	B3/B4
	SMF 55415	277	175	175	12	54	94	510	510	1	STD	B3/B4
	SMF 56318	277	175	175	12	63	110	580	580	0	STD	B4
	SMF 56323	277	175	175	12	63	110	580	580	0	FORD	B3
	SMF 56330	277	175	175	12	63	110	580	580	0	STD	B3
	SMF 57113	277	175	175	12	71	115	620	620	0	STD	B3
	SMF 57114	277	175	175	12	71	115	620	620	0	FORD	B3
L3	SMF 56638	277	175	190	12	66	110	580	540	0	STD	B3
	SMF 57220	277	175	190	12	72	120	620	580	0	STD	B3
	SMF 57219	277	175	190	12	72	120	620	580	1	STD	B3
	SMF 57820	277	175	190	12	78	140	700	660	0	STD	B3
LB4	SMF 58014	315	175	175	12	80	135	730	730	0	STD	B3
L4	SMF 59042	315	175	190	12	90	160	780	720	0	STD	B3
	SMF 59043	315	175	190	12	90	160	780	720	1	STD	B3
LB5	SMF 58515	353	175	175	12	85	140	740	700	0	STD	B3
	SMF 59015	353	175	175	12	90	156	820	820	0	STD	B3
L5	SMF 58827	353	175	190	12	88	148	730	700	0	STD	B3
	SMF 59218	353	175	190	12	92	160	780	740	1	STD	B3
	SMF 60044	353	175	190	12	100	170	850	820	0	STD	B3
MAC	SMF 61023	514	175	210	12	110	215	800	800	3	STD	B3
	SMF 63531	514	175	210	12	135	250	910	910	3	STD	B3
SHD A	SMF 64020SHD	513	189	223	12	140	260	800	800	3	STD	B0/B3
	SMF 64028SHD	513	189	223	12	140	260	800	800	4	STD	B0/B3
SHD B	SMF 67018SHD	513	222	220	12	170	330	900	900	3	STD	B0/B3
	SMF 67019SHD	513	222	220	12	170	330	900	900	4	STD	B0/B3
	SMF 68032SHD	513	222	220	12	180	350	950	950	3	STD	B0/B3
	SMF 68033SHD	513	222	220	12	180	350	950	950	4	STD	B0/B3
SHD C	SMF 68021SHD	518	273	241	12	180	350	950	950	3	STD	B0
	SMF 70027SHD	518	273	241	12	200	390	1150	1150	3	STD	B0
	SMF 73011SHD	518	273	241	12	230	430	1200	1200	3	STD	B0

NOVA

GREEN ENERGY POWER

SUPER MAINTENANCE FREE CALCIUM MF BATTERY

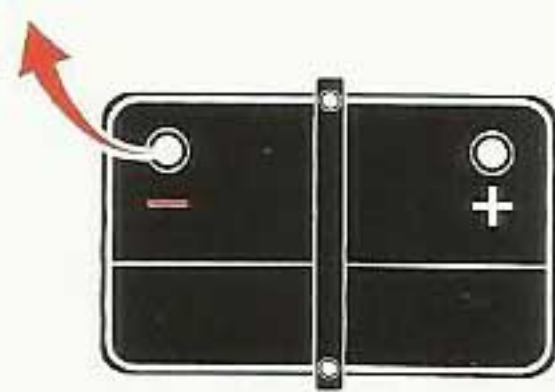


PROCEDURE OF REPLACEMENT



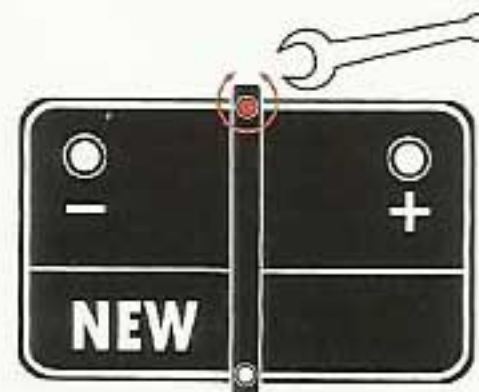
Switch off the engine and keep sparks, flames, cigarettes away from battery at all times, before removing the old battery.

1



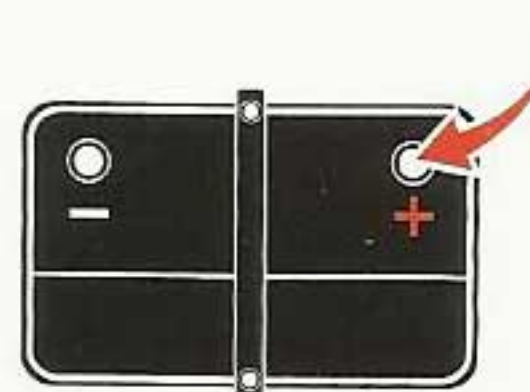
Disconnect the negative terminal, first and avoid short-circuit caused by tools, when removing old battery.

2



Clean corroded parts in tray and cable clamps, before installation of new battery.

3



Connect the positive terminal, first and check the terminal clamps for tight fit, when installing new battery.

4

01 Centered Cast-on Plate Straps

- Stronger than the thinner gas-burned conventional connectors.
- Reduce the lever action movement resulting from road shock.

02 Exclusive Patented Liquid Gas Separator

- Prevent electrolyte losses by collection and returning liquid to the reservoir.
- Vents allow the battery to "breathe" during temperature changes and charging.

03 Flame Arrester

- Safety system
- Prevent the explosion from spark of outside
- Minimize the acid-leakage
- Prevent the inflow of dust

04 Heat-Sealed Covers

- Prevent contamination and also add to the strength and rigidity.
- Include permanent flame arresters to prevent accidental explosion from external sparks or flame.
- Have hydrometer built in for faster checking.

05 Hydrometer

- At full charge, the electrolyte specific gravity is 1.28 while at 50% of charge considered the minimum serviceable condition, the specific gravity is typically 1.22. In a typical situation when the specific gravity drops to 1.10, the battery is fully discharged.

06 Low-Resistance Envelope Separators

- Encapsulate negative plates
- Improve vibration durability
- Prevent "treeing" and internal shorting between pos. and neg. plates

07 Polypropylene Case

- Reinforced design is precisely tailored to support the battery elements.
- Material is exceptionally strong, durable and withstands road shock and vibration.

08 Wrought Lead-Calcium Grids

- Offer considerable strength
- Resistant to grid corrosion
- Over-charge resistant
- Minimal gassing and water usage
- Less self-discharge
- Resist thermal runaway

CAUTION



- No Sparks, Flames, or Smoking.
- Charge in well ventilated area.
- Remove from vehicle prior to charging.
- Read your vehicle, booster, and battery manuals prior to charging.
- In case of exposure to acid, flush immediately with water. Then get immediate medical help.
- Do not block or alter vent hole.
- Keep out of reach of children.

WARNING! LEAD ACID BATTERIES GENERATE EXPLOSIVE GASES. KEEP SPARKS, FLAMES, & LIGHTED CIGARETTES AWAY FROM BATTERY, WHEN CHARGING OR USING BATTERY IN AN ENCLOSED SPACE, PROVIDE VENTILATION. THIS BATTERY CONTAINS SULPHURIC ACID. AVOID CONTACT WITH SKIN, EYES, OR CLOTHING. IN EVENT OF ACCIDENT FLUSH WITH WATER AND CALL A PHYSICIAN IMMEDIATELY

MAXIMUM RECHARGING VOLTAGE IS 14.6V



BATTERY, WET, FILLED WITH ACID



Flammables



Read Instructions Carefully



Keep out of Reach of Children



Cautions of Sulfuric Acid



Shield Eyes



Explosive