SolarOne

Not just a commuter car

No range anxiety

The maximum speed is 60km/h, and the power battery is a lithium battery with a capacity of 7.63KWH

No charging anxiety

The max. daily range can be increased by 30 kilometers, with only 1 charges required per month;

More usage scenarios

V2L Convert the direct current of the power battery into alternating current and output it outward

THIS IS A FAMILY LIFE CAR

Powerful power and endurance can adapt to different road conditions and weather conditions

The annual comprehensive operating cost is less than **1/20** of that of gasoline vehicles

Peak power 8KW (10.8Ps)
AC asynchronous drive motor

Power battery capacity:
7.63KWh

5 doors and 4 seats design
Foldable rear seats

Chassis ground clearance230mm
Unitized body

MEET THE COMMUTING NEEDS OF “30 KM LIFE CIRCLE”

The Max. "life circle" of ordinary people is generally within a range of 30 km, while the daily commuting distance is about 10 km

Company School Shopping Restaurant Gymnasium Amusement Park Hospital Bank

ZERO POLLUTION & ZERO EMISSIONS

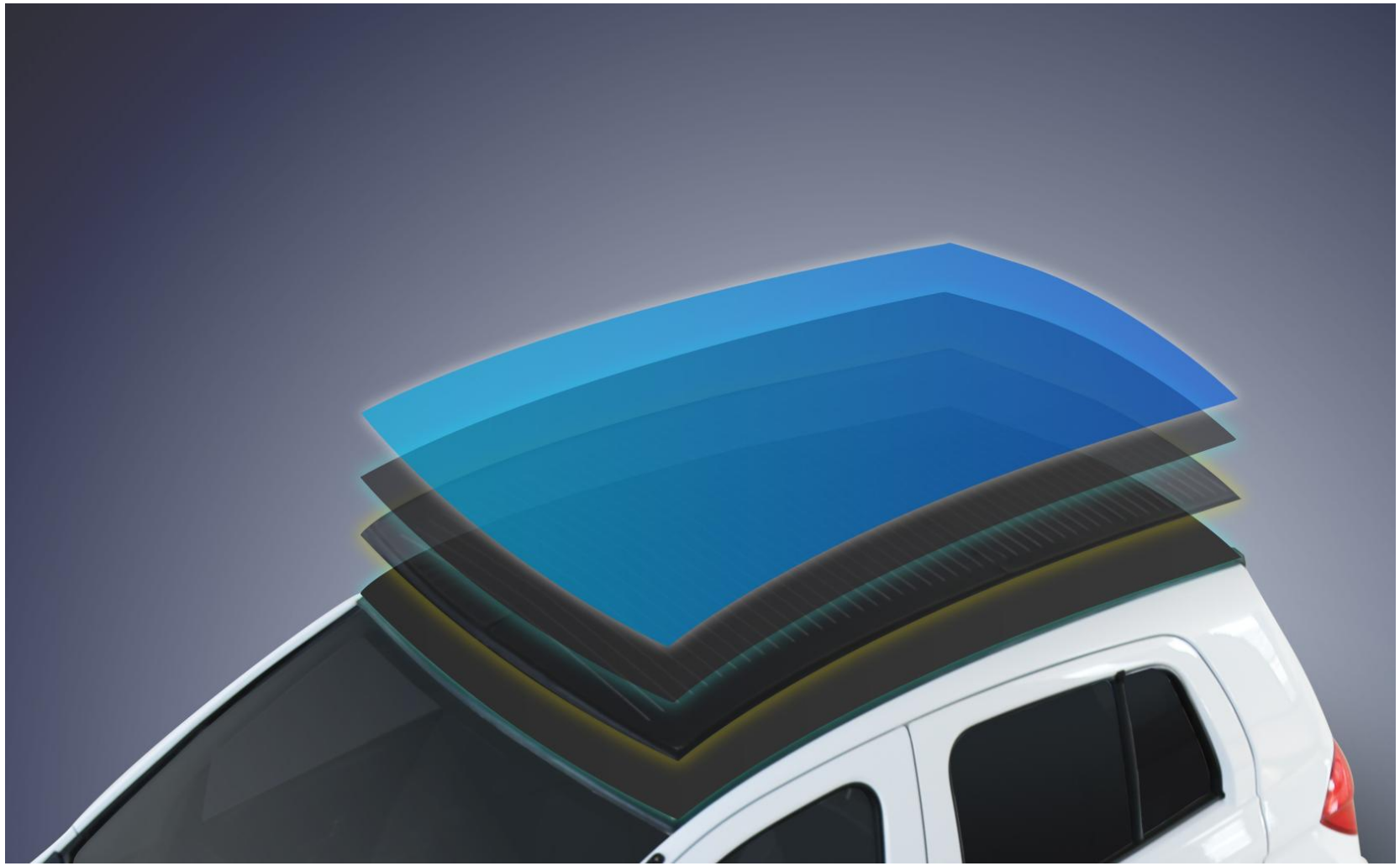
Solar car are a type of vehicle that relies on solar energy as the primary or auxiliary energy source to drive

Compared to traditional internal combustion engine driven cars, solar powered cars are truly zero emissions.

Core patented technology
Curved glass lamination process

Solar system power 300W
99.9% efficient MPPT controller

Conversion rate 23.7%
IBC monocrystalline silicon modules



ADDRESSING USER'S RANGE ANXIETY

Under the condition of sufficient sunlight, the solar system can increase the vehicle's range by about 30 km per day

Even in cloudy and rainy weather with insufficient sunlight, the power battery in the car can still provide a range of **> 140 km**

WEAK LIGHT POWER GENERATION TECHNOLOGY

Under weak sunlight conditions, the power generation capacity of solar cell modules is often affected. **Solarone** optimizes materials, structures, and processes to maximize the power generation efficiency of solar cell modules under weak sunlight conditions.

SUNLIGHT & ELECTRIC COMPLEMENTARY CHARGING MODE

In parking mode, the solar system supplies power to the power battery, enhancing the vehicle's endurance;

During driving, the solar system prioritizes supplying power to loads such as air conditioning and touch screens, reducing battery loss.

Driving

Parking

ADDRESSING USER'S CHARGING ANXIETY

Solar mode: The solar system located on the roof can continuously charge the vehicle as long as it receives sunlight;

OBC mode: 1.5 kW OBC，　DOD 80% charging time only takes **4 hours**

Solar mode

OBC mode

EXPLORE MORE USAGE SCENARIOS

Solarone is not just a commuting vehicle, but also a mobile power station (vehicle to load)

EXCELLENT HANDLING PERFORMANCE

Strong and smooth power output & Durable MacPherson independent suspension system

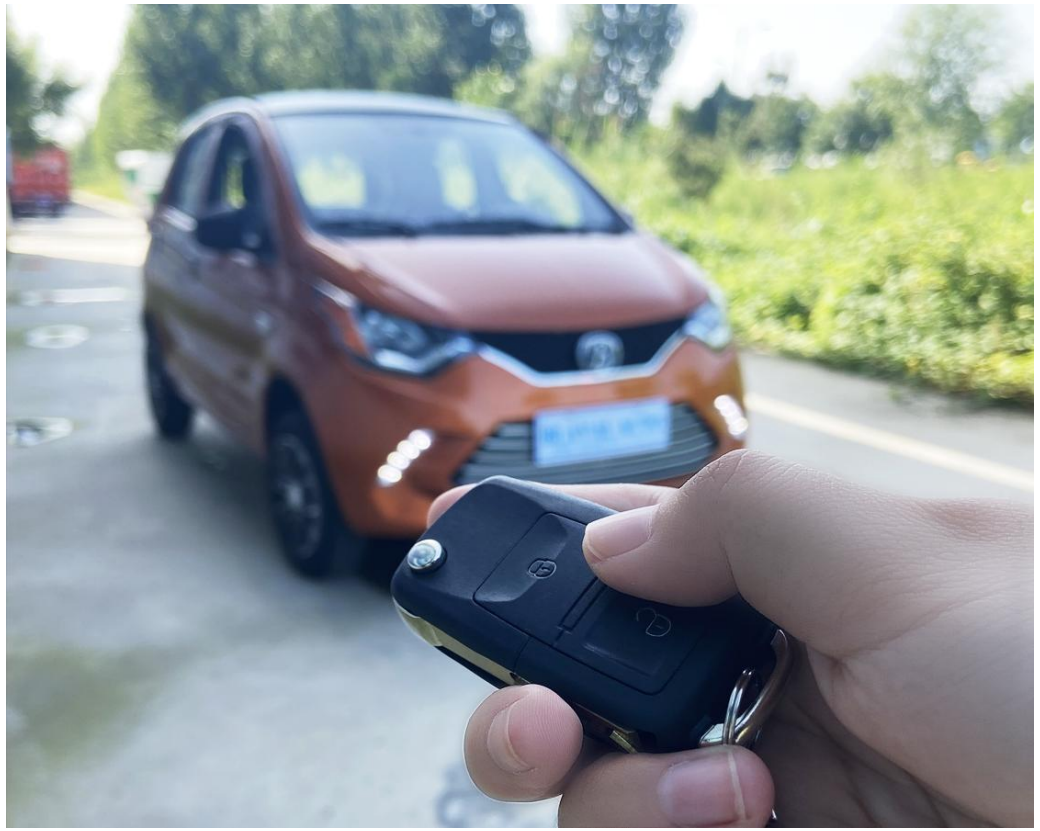
Integrating new powertrain and battery technology to enable **Solarone** to achieve higher efficiency, performance, and endurance

COMFORTABLE DRIVING EXPERIENCE

Built in 9-inch Android system central control touch screen, supporting 45+operating languages and app stores

LIGHTING CONFIGURATION

Low beam | High beam | Rear fog Light | Daytime Running Light | Position light | Turn light | Brake light | Reverse light | Warning light



Remote control car lock

Rear compartment lock

Charging And Discharging Ports

Located below the front grille logo

Rear View Camera

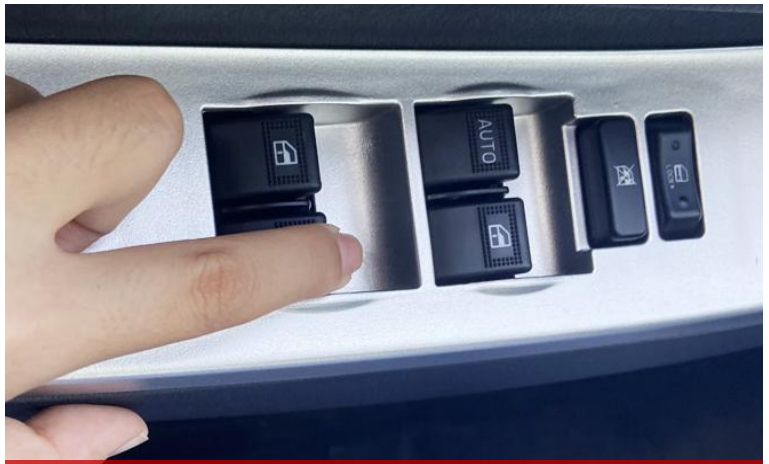
Adjustable rearview mirror

Windshield wiper

Original Tire

155/65R13 (steel wheel hub)

Main control : Door lock&Window lock



Driver

Passenger

Air-conditioning system

Glass defrosting

Control panel

Steering wheel

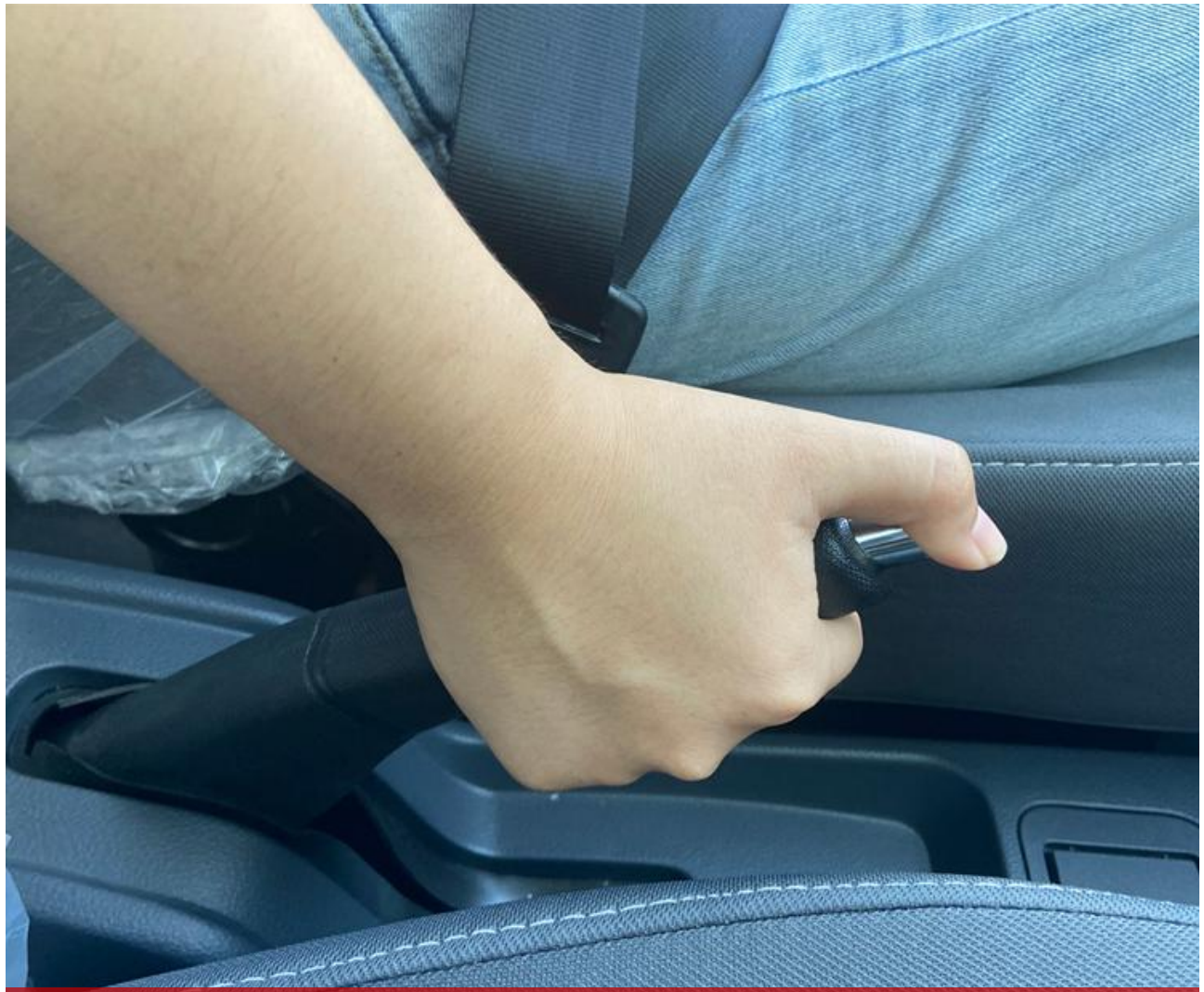
Light control

Wiper control

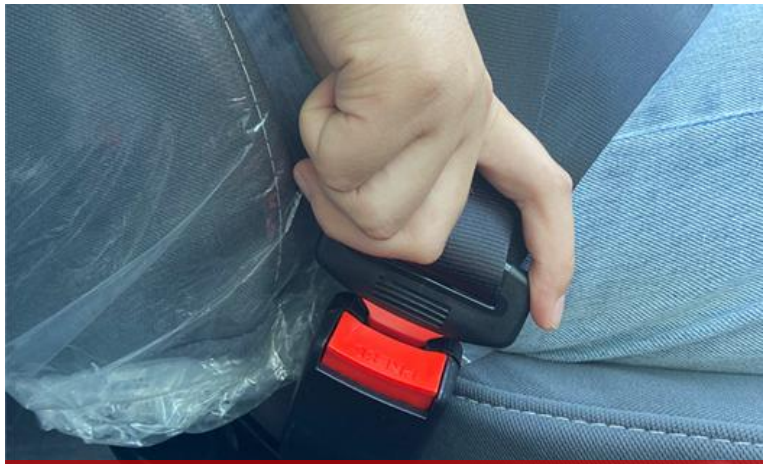
Sun visor

Reading light

Interior rearview mirror



Parking handbrake



Front seat belts

Rear seat belts

Push rod shifter

Accelerator pedal

Service brake

Front Seats

Fore-and-aft adjustment

Front Seats

Backrest adjustment

Front Row Space
Model height 173cm

Rear Row Space
Model height 173cm

More Space

The rear seats can be folded flat

Trunk Space

Can accommodate 4 suitcases

SolarOne

Standard configuration list

NO.	Item	Parameter
1	**BASIC INFORMATION**	
1.1	Manufacturer	BLAVALAUTO(CHINA)LIMITED
1.2	WMI	R7U
1.3	Assembly factory	Dezhou Fanhai New Energy Technology Co., Ltd
1.4	Brand	BLAVAL
1.5	Vehicle Type	Solar Car
1.6	Vehicle Level	A00
1.7	Vehicle Model	FHC7001SEV
1.8	Global Sales Code/Business code	Solarone
1.9	Fuel Type	Electric
1.10	Body Structure	5 doors / 4 Seats hatchback
1.11	L*W*H（mm）	3380*1550*1530
1.12	Driver's position	LHD
1.13	Turning radius (m)	4.5
1.14	Climbing angle（%）	≤25
1.15	Ground clearance of chassis (mm)	230
1.16	Door opening method	Swing Door
1.17	power consumption/100Km (KWH)	6 (ECO)
1.18	Max. speed（km/h）	60
1.19	NEDC Range（km）	140
1.20	Location Of Charging Port	Below the front grille logo
1.21	Vehicle warranty period	2 years/30000 kilometers
2	**BODY**	
2.1	Length（mm）	3380
2.2	Width（mm）	1550
2.3	Height（mm）	1530
2.4	Wheel base（mm）	2260
2.5	Front track（mm）	1330
2.6	Rear track（mm）	1310
2.7	Ground clearance of chassis（mm）	230
2.8	Body type	Unitized body
2.9	Door	5
2.10	Seat	4
2.11	Cargo compartment volume (L)	550
2.12	Curb weight（Kg）	800
2.13	Maximum load mass （Kg）	300
2.14	Max. total mass（Kg）	1080
3	**MOTOR**	
3.1	Motor type	AC motor
3.2	Motor Model	XQY4-72-H12
3.3	Rated power（KW）	4
3.4	Peak power（KW）	8
3.5	Peak horsepower（Ps）	10.8
3.6	Peak torque（N.m）	81.8
3.7	Motor position	RR
3.8	Number of motors	Single motor
3.9	MCU (V)	72

4	SOLAR SYSTEM	
4.1	Solar Chip Type	Single-Crystal Silicon
4.2	Solar cell process	IBC-Interdigitated back contact
4.3	Solar panel process	Full roof curved glass lamination
4.4	Solar panel power (W)	300
4.5	Controller type	MPPT
4.6	Solar core technology	Solar Curved Glass Lamination Technology
		Weak sunlight power generation technology
		sunlight & electric complementary charging mode

5	BATTERY&CHARGING	
5.1	Battery type	Lithium（NCM）
5.2	Battery pack warranty	3 Years/50000Km
5.3	Rated voltage of battery pack (V)	72
5.4	Battery power (KWH)	7.63
5.5	fast charging interface position	NO
5.6	Slow charging interface position	Below the front grille logo
5.7	SOC20% Charging time (h)	5
5.8	Input Voltage range (V)	AC 90-264
5.9	Input voltage frequency range (Hz)	40-70
5.10	MAX. Output current (A)	40
5.11	Battery thermal management system	NO
5.12	Charging gun standard	Type 1
5.13	Plug standard	EU/ UK/US/GB (Customized)
5.14	Vehicle to Load (V2L)	Optional
5.15	Discharge gun	Optional

6	GEARBOX	
6.1	Transmission Description	Single speed transmission
6.2	Gearbox type	Fixed gear ratio
6.3	Gear ratio	10:1
6.4	Gear type	D/N/R
6.5	High/Low Speed Mode	NO

7	CHASSIS&STEERING	
7.1	Driving method	RWD
7.2	Front suspension type	McPherson independent suspension
7.3	Rear suspension type	Trailing arm non independent suspension
7.4	Steering type	Steering wheel (Optional:EPS)
7.5	Body structure	Unitized body

8	WHEEL&BRAKE	
8.1	Front brake type	Disc brake
8.2	Rear brake type	Drum brake
8.3	Parking brake type	Hand brake
8.4	Tire specifications	155/65R13
8.5	Wheel hub type	Steel wheel hub
8.6	Spare tire specification/type	NO

9	SAFETY & HANDLING CONFIGURATION	
9.1	Driver's airbag	Optional
9.2	Passenger airbag	NO
9.3	Brake system type	CBS
9.4	Brake assist system	Vacuum hydraulic
9.5	Hill-start Assist ControL	YES

9.6	Seat belt not fastened reminder	NO
9.7	Door ajar prompt	NO
9.8	Driver/passenger seat belt	Three-point belt
9.9	Speed sensing automatic locking	NO
9.10	Front anti-collision beam	YES
9.11	Side anti-collision beam	YES
9.12	Bumper	Front/Rear
9.13	Handbrake power off	YES
9.14	Auto power off fully charge	YES
9.15	Over voltage protection	YES
9.16	Under voltage protection	YES
9.17	Over current protection	YES
9.18	overheat protection	YES
9.19	Charging leakage protection	YES
9.20	Output short circuit protection	YES
9.21	Warning horn	YES
9.22	Electric power window	YES
9.23	Rearview mirror	YES
9.24	Central lock	YES
9.25	Remote key	YES
9.26	Wheel lock	YES
9.27	Braking Energy Recovery	YES
9.28	Sliding energy recovery	YES
9.29	BMS	YES
9.30	Driving mode selection	NO

10	**INTERIOR CONFIGURATION**		
10.1	Inner mirror	10.5	Combination instrument panel
10.2	Room lamp	10.6	Push rod shifter
10.3	visor	10.7	Cup holder
10.4	PU seats	10.8	Combination switch (light/wiper)
11	**LIGHTING CONFIGURATION**		
11.1	Combination headlight	11.7	Turn signal (L/R)
11.2	Combination tail lamp	11.8	Warning lights
11.3	Daytime running lamps	11.9	Brake light(L/R)
11.4	High beam	11.10	Reversing light(R)
11.5	Low beam	11.11	Fog light(R)
11.6	Position light (L/R)	11.12	High mounted brake light(Optional)
12	**MULTIMEDIA AND AIR CONDITIONING**		
12.1	9-inch floating screen	12.7	Google Maps(Optional)
12.2	Color touch screen	12.8	Radio
12.3	Screen Language (English, etc)	12.9	music player
12.4	USB mode	12.10	video player
12.5	Bluetooth mode	12.11	12V External power supply
12.6	Rear View Camera	12.12	Air-conditioning(Optional)
13	**DRIVER'S TOOL AND ACCESSORIES**		

Car key

Charging gun

Warning signs

Driver's toolkit