



Solar2

L7e-CU

E13

德州泛海新能源科技有限公司拥有本产品的最终解释权

Performance

246AH big capacity lithium battery
and the Max. range in ECO mode
can reach 600 km

Solar system

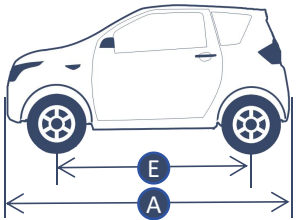
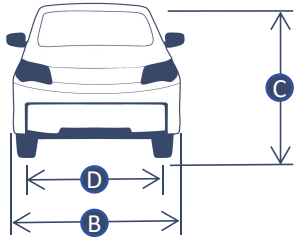
Under the condition of meeting sunlight
exposure, the daily driving range can be
increased by 20 km

Strong power

Rated power 12KW PMS motor
The Max. speed is 90 km/h
Full load climbing ability>15%

FLEXIBLE STEERING & MINI BODY

Can pass through narrow alleys without pressure and and convenient parking



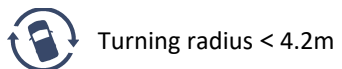
A: Body Length 3096mm

B: Body Width 1500mm

C: Body Height 1530mm

D: Track width 1305mm

E: Wheel Base 2020mm



EXTREMELY LOW USAGE COST

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



Low Power consumption
< 4KWh/100Km(ECO)



Motor&Battery&Controller warranty
3 years or 50000Km

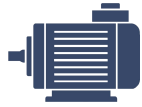


Extremely low travel costs
< ¥ 0.03/Km



NEW POWERTRAIN AND BATTERY TECHNOLOGY INTEGRATION

Enable SOLAR2 to achieve higher efficiency, performance, and endurance



Rated power 12KW PMS Motor
Peak torque 85 N.m



Energy recovery system
Braking&coasting



Intelligent BMS
Charge discharge balance



Thermal Management System
Low temperature preheating



EXCELLENT HANDLING PERFORMANCE OF SOLAR 2

Strong and smooth power output& durable MacPherson independent suspension system



Standard EPS
Enjoy driving more



Ground clearance 210mm
Better pass-ability



F-Disc brake & R-Drum brake
More reliable braking performance



COMPREHENSIVE UPGRADE OF VEHICLE SAFETY AND RELIABILITY

Body safety&Battery safety &Driving safety&Component protection level IP67



Cage style high-strength steel body
Front anti-collision beam
Side collision beam



Short circuit protection
Charging and discharging safety
Battery system safety



Ensuring travel safety
Driver's airbag&Safety belt
Hill-start Assist Control



YOUNG AND ENERGETIC INTERIOR DESIGN

9-inch floating touch screen design with convenient and practical multimedia functions



Touch Screen



Google Maps



Bluetooth



Music player



Rear View Camera



Video Player



USB interface



FM radio



IT IS A CITY COMMUTING VEHICLE

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



Energy saving mode (ECO)
Max.range 600Km



Maximum speed of
90Km/h



Power battery capacity:
23.67KWh(NCM622)



Charging & discharging life
1500cycle(100% DOD)



IT IS A MOBILE SMALL WAREHOUSE

2 doors & 2 seats, Front row carrying passengers and rear row loading goods design



2 seats design

Standard three-point seat belt



714L Big volume

Meet more usage scenarios



Standard A/C system

Comfortable driving experience

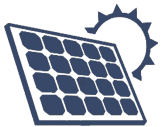


IT IS A SOLAR CAR WITH 0 POLLUTION & 0 EMISSIONS

Under the condition of meeting sunlight, the daily range can be increased by 20KM



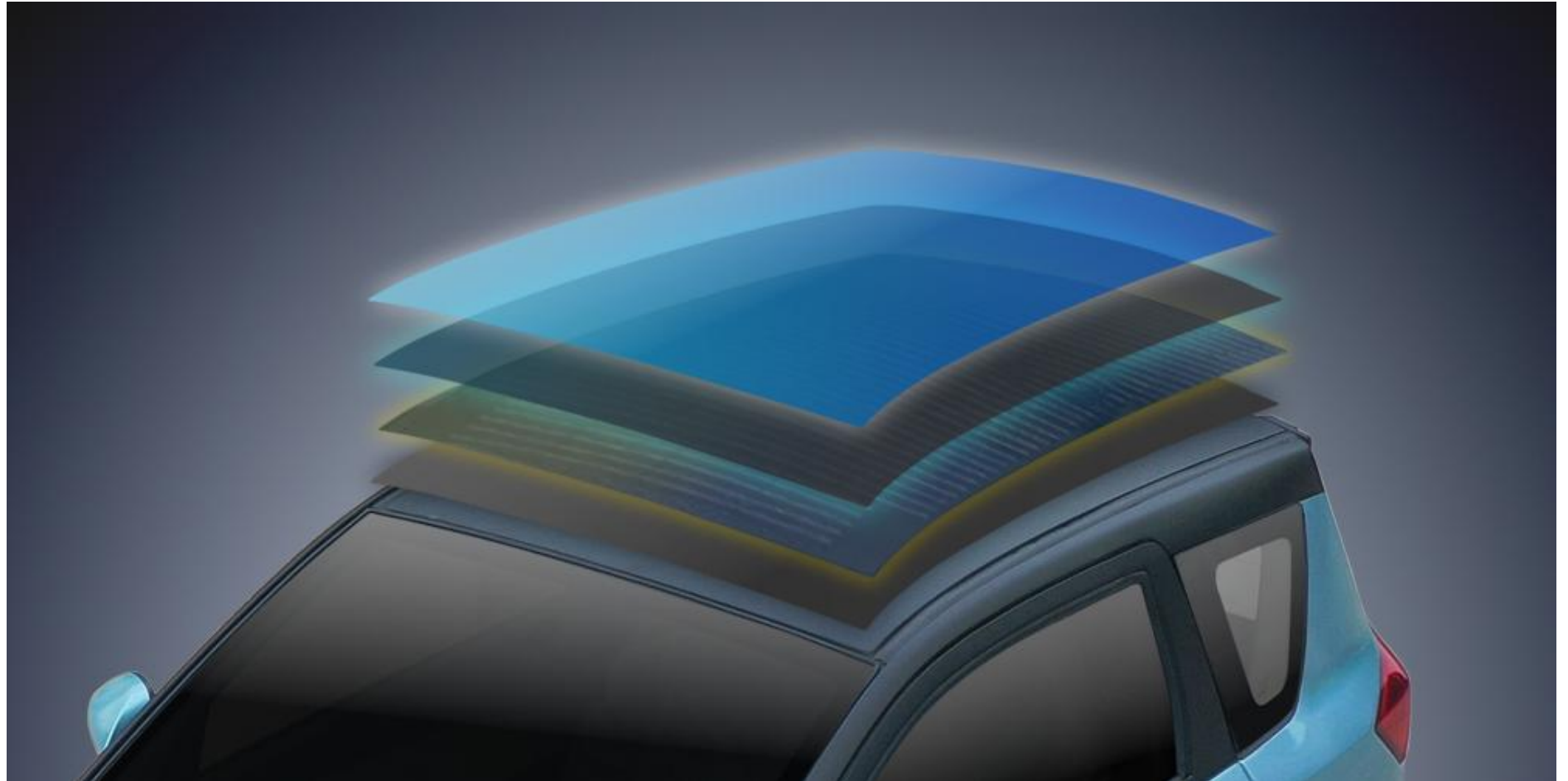
Core patented technology
Curved glass lamination process



Solar system power 300W
99.9% efficient MPPT controller

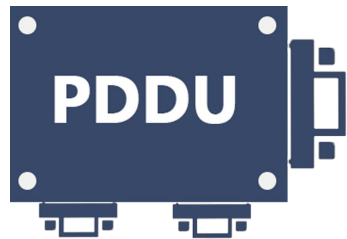


Conversion rate 25.06%
IBC mono-crystalline silicon modules



THREE CORE TECHNOLOGIES OF SOLAR CAR

Solar2 having core intellectual property rights: patents, appearance designs, copyrights, and integrated circuit layouts



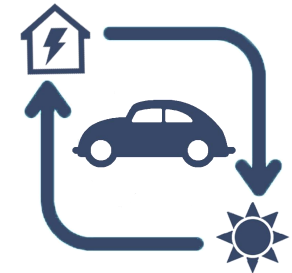
POWER DOMAIN DISTRIBUTION UNIT CHARGING & DISTRIBUTION

When the car charger is not working, as long as the sunlight conditions are met, the solar system can provide power to the vehicle anytime and anywhere; When the car charger is working, the solar system temporarily turns off the power supply function.



WEAK LIGHT POWER GENERATION TECHNOLOGY

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



OPTOELECTRONIC COMPLEMENTARY CHARGING TECHNOLOGY

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.











Standard color: White



Standard color: Yellow



Standard color: Cyan

VEHICLE SPECIFICATIONS

NO.	Item	Parameter
1	BASIC INFORMATION	
1.1	Manufacturer	BLAVALAUTO
1.2	WMI	R7B
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	L7e-CU
1.7	Vehicle Model	FHC7003SEV
1.8	Global Sales Code/Business code	Solar 2
1.9	Fuel Type	Electric
1.10	Body Structure	3 doors / 2 Seats Mini car
1.11	L*W*H (mm)	3096*1500*1530
1.12	Driver's position	LHD
1.13	Turning radius (m)	4.2
1.14	Climbing angle (%)	≤25
1.15	Ground clearance of chassis (mm)	210
1.16	Door opening method	Swing Door
1.17	power consumption/100Km (KWH)	< 4 (ECO)
1.18	Max. speed (km/h)	90
1.19	NEDC Range (km)	300 (ECO-600)
1.20	Location Of Charging Port	Below the front grille logo
1.21	Vehicle warranty period	3 years/50000 kilometers

2	BODY	
2.1	Length (mm)	3096
2.2	Width (mm)	1500
2.3	Height (mm)	1530
2.4	Wheel base (mm)	2020
2.5	Front track (mm)	1305
2.6	Rear track (mm)	1305
2.7	Ground clearance of chassis (mm)	210
2.8	Body type	Uni body
2.9	Door	3
2.10	Seat	2
2.11	Cargo compartment volume (L)	714
2.12	Mass in running order (Kg)	580
2.13	Actual mass (Kg)	800
2.14	Max. laden mass (Kg)	1100
3	MOTOR	
3.1	Motor type	PMSM-Permanent magnet synchronous motor
3.2	Motor Model	TZ155X1296H12
3.3	Rated power (KW)	12
3.4	Peak power (KW)	25
3.5	Peak horsepower (PS)	34
3.6	Peak torque (N.m)	85
3.7	Motor position	RR
3.8	Number of motors	Single motor
3.9	MCU (V)	96

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	PDDU-Power Domain Distribution Unit Weak sunlight power generation technology Optoelectronic Complementary Charging Technology

5 BATTERY&CHARGING

5.1	Battery type	Lithium (NCM622)
5.2	Battery pack warranty	3 Years/50000Km
5.3	Rated voltage of battery pack (V)	96
5.4	Battery power (KWH)	23.67
5.5	fast charging interface position	NO
5.6	Slow charging interface position	Below the front grille logo
5.7	SOC20% Charging time (h)	6
5.8	Input Voltage range (V)	AC 90-264
5.9	Input voltage frequency range (Hz)	40-70
5.10	MAX. Output current (A)	32
5.11	Battery thermal management system	Low temperature heating
5.12	Charging gun standard	Type 1
5.13	Plug standard	EU
5.14	Vehicle to Load (V2L)	Optional
5.15	Discharge gun	NO

6 GEARBOX

6.1	Transmission Description	Single speed transmission
6.2	Gearbox type	Fixed gear ratio
6.3	Gear ratio	8.14:1
6.4	Gear type	E/D/N/R
6.5	High/Low Speed Mode	E(ECO)-70Km/h; D (Sports)-90 Km/h

7 CHASSIS&STEERING

7.1	Driving method	RWD
7.2	Front suspension type	McPherson independent suspension
7.3	Rear suspension type	Integrated bridge non independent suspension
7.4	Steering type	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	165/65R14
8.5	Wheel hub type	Aluminum wheels
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	SSBS
9.4	Brake assist system	Vacuum hydraulic
9.5	Hill-start Assist Control	YES

9.6	Seat belt not fastened reminder	YES
9.7	Door ajar prompt	YES
9.8	Driver/passenger seat belt	Three-point belt
9.9	Speed sensing automatic locking	YES
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	Rear-view 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	ECO / Sports

10 INTERIOR CONFIGURATION

10.1	Inner mirror	10.5	Combination instrument panel
10.2	Room lamp	10.6	Knob type gear shifter
10.3	visor	10.7	Cup holder
10.4	Fabric seats	10.8	Combination switch (light/wiper)

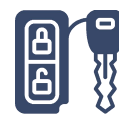
11 LAMP CONFIGURATION

11.1	Combination headlight	11.7	Turn signal (L/R)
11.2	Combination tail lamp	11.8	Side turn signals (L/R)
11.3	Daytime running lamps	11.9	Brake light(R)
11.4	High beam	11.10	Reversing light(R)
11.5	Low beam	11.11	Fog light(R)
11.6	Position light (F)	11.12	License plate lamp(R)

12 MULTIMEDIA AND AIR CONDITIONING

12.1	9-inch floating screen	12.7	Google Maps
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

13 DRIVER'S TOOL AND ACCESSORIES



Car key



Charging gun



Warning signs



Driver's toolkit