



GREEN TOMORROW

Empowering Tomorrow with Sustainable Energy Today!



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SSSB Whitefield

A leading provider of cutting-edge Green Energy Solutions, including Tubular Batteries, Inverters, Solar Panels, and CNG Kits



SSSB Whitefield Private Limited is a part of SSB FZE (U.A.E.), a well known name in the field of Agro Commodities business for **over 15 years**. Our commitment to excellence has enabled us to expand our presence in the **Middle East, South America, Africa & Asia**. We are a dynamic and forward-thinking company that specializes in the trade of **Green Energy** products, specifically Tubular Batteries, MPPT Inverters, Solar Panels and CNG/LPG Conversion Kits in the international market. With a strong commitment to sustainability and a focus on cutting-edge technology, SSSB Whitefield has established itself as a reliable source for high-quality green energy solutions in the international market.



GREEN

OUR MISSION

Bringing Ideas and Innovation to Life Through Technology



Our CORE philosophy is to "Seed, Serve and Build"

We want to empower the world with clean, efficient, and sustainable energy solutions, reducing the carbon footprint and promoting a greener future for all.



Our Vision is to be a global leader in the export of green energy products, driving innovation, and making a positive impact on the environment and society.



Core Values

Sustainability:

SSSB Whitefield is dedicated to reducing the environmental impact by promoting and exporting clean energy solutions.

Quality:

The company ensures that all products meet the highest standards of quality and reliability.

Innovation:

SSSB Whitefield believes in staying at the forefront of technology and innovation to offer the best products to its customers.

Customer-Centric:

The company places a strong emphasis on understanding and meeting the unique needs of its customers.

WHY CHOOSE US?

When you partner with us, you gain access to:

1. High-Quality Energy Solutions:

Our Tubular Batteries, Inverter, and Solar Panels are engineered for efficiency, durability, and performance, meeting the most stringent industry standards.

2. Competitive Pricing:

We offer competitive wholesale prices, ensuring that you can maximize your margins and stay ahead in the market.

3. Diverse Product Range:

Whether your customers are looking for reliable power backup solutions or eco-friendly solar solutions, we have a wide range of products to meet their needs.

4. Global Expertise:

Backed by our parent company SSB FZE, we bring a wealth of experience and a global perspective to the Energy Solutions sector.

5. Excellent Customer Support:

Our dedicated customer support team is here to assist you every step of the way, from product selection to after-sales service.

OUR OFFERINGS



Solar Panels:

Embrace clean, renewable energy with our high-quality solar panels. Experience the benefits of harnessing the power of the sun to reduce your carbon footprint and energy bills.



Energy Storage:

Say goodbye to power outages and unpredictable energy supply. Our energy storage solutions ensure uninterrupted power for your home or business, even when the sun goes down.



Energy Saving Inverter:

Take control of your energy consumption with our intelligent inverter. They optimize energy use, reduce waste, and put you in charge of your energy destiny.

PRODUCT RANGE

SSSB Whitefield deals in the export of the following products:

Tubular Battery:

SSSB Whitefield offers high-performance tubular batteries designed for renewable energy storage. These batteries are known for their durability, long life, and superior performance in off-grid and backup power systems.

MPPT Inverter:

The company exports Maximum Power Point Tracking (MPPT) inverters that are essential for efficient energy conversion in solar power systems. These inverters optimize the performance of solar panels and maximize energy output.

Solar Panel

SSSB Whitefield sources and exports a wide range of solar panels, including monocrystalline and polycrystalline variants, catering to the diverse needs of customers looking to harness solar energy.

CNG Kits

The company provides Compressed Natural Gas (CNG) conversion kits, offering a sustainable and cost-effective alternative to traditional fossil fuels.

COMPETITIVE EDGE

SSSB Whitefield distinguishes itself through several key factors:

1. Quality Assurance:

All products undergo rigorous quality control measures to ensure top-notch performance and longevity.

2. Global Reach:

The company has established a strong international presence, serving clients across multiple countries.

3. Sustainability Focus:

SSSB Whitefield's commitment to clean and green energy aligns with global efforts to combat climate change.

4. Customization:

The company offers tailored solutions to meet the unique needs of clients and projects.

5. Innovation:

SSSB Whitefield stays updated with the latest technological advancements in the renewable energy sector to provide cutting-edge solutions.

MARKET PRESENCE

SSSB Whitefield has effectively conducted the import and export of its products to various countries such as the UAE, Nigeria, Brazil, Argentina, Bolivia, Sudan, China, and several other nations in both Asia and Africa.

SSSB Whitefield continues to expand its market presence and contribute to a more sustainable and eco-friendly world through its export of renewable energy products.

TALL TUBULAR BATTERY



THE ULTIMATE POWER



LONGER LIFE



VERY LOW MAINTENANCE



HIGH PERFORMANCE



FAST CHARGING

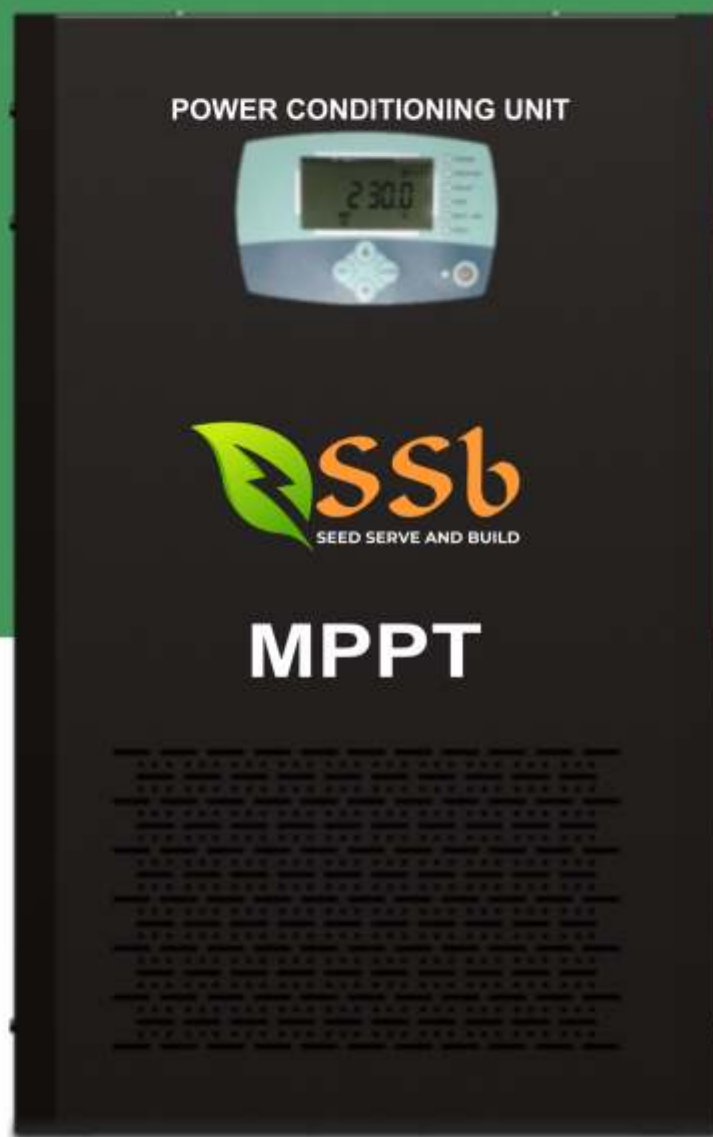
100 AH, 150 AH, 200 AH, 220 AH, 240 AH

Technical Specifications

Model	all Tubular Battery Series				
Battery rating	100Ah	150Ah	200Ah	220Ah	240Ah
Type of Battery	Tubular				
Model Offered	1000	1500	2000	2200	2400
Nominal Voltage	12V				
Number of cell	6				
Shelf life	6 years				
Nominal Capacity(27°C)					
Cell Capacity @ C20	102 Ah	153 Ah	200 Ah	220 Ah	240 Ah
Cell Capacity @ C10	81 Ah	120 Ah	176 Ah	200 Ah	220 Ah
Cell Capacity @ C3	57.5 Ah	86 Ah	126 Ah	150 Ah	175 Ah
AH Efficiency	> 90%				
WH Efficiency	> 80%				
Recommended max. period of storage	3 months at 27°C				
Grid Alloy	Lead Antimony alloy				
Container & Lid Material	PPCP				
Sealing Method	Heat Sealing				
Plate type	Tubular Pos. & Flat Neg.				
Separator	Polyethylene				
Terminals & ICC	Bolted type terminals with lead coated fastners				
Mounting	Vertical				
Acid Level Indicators	Provided				
Supply condition	Factory charged				
Self Discharge at 27°C (average)	2.5%	3%	3%	3%	3%
Operating Temp. range	-20~ 50°C				
Discharge	-20~ 50°C				
Charge	-10~ 50°C				
Storage	-20~ 50°C				
Max. Discharge Current 77°F (25°C)	100 A(3 sec)	450A(3 sec)	600A(3 sec)	675A(3 sec)	675A(3 sec)
Short Circuit Current	100 A	150 A	200 A	220 A	240 A
Cycle Use	14.2 - 14.5 V	14.4 - 14.7	14.4 - 14.7	14.4 - 14.7	14.4 - 14.7
Maximum charging Current 10% of Capacity	10 Amp	15 Amp	20 Amp	25 Amp	25 Amp
Temperature compensation	75mV/300moh				
Weight (Kg) Gross +/- 3%	52	58	64	66	69
Dimensions (L x W x H) in mm	505 x 187 x 394				

HYBRID SOLAR PCU

5KVA/48V & 10KVA/120V



ADVANCED MPPT ALGORITHM BASED



Least Harmonic Distortion



Compatible with Li-ion



Live Clock Based User Settable Functioning



100% Utilization of Solar Power

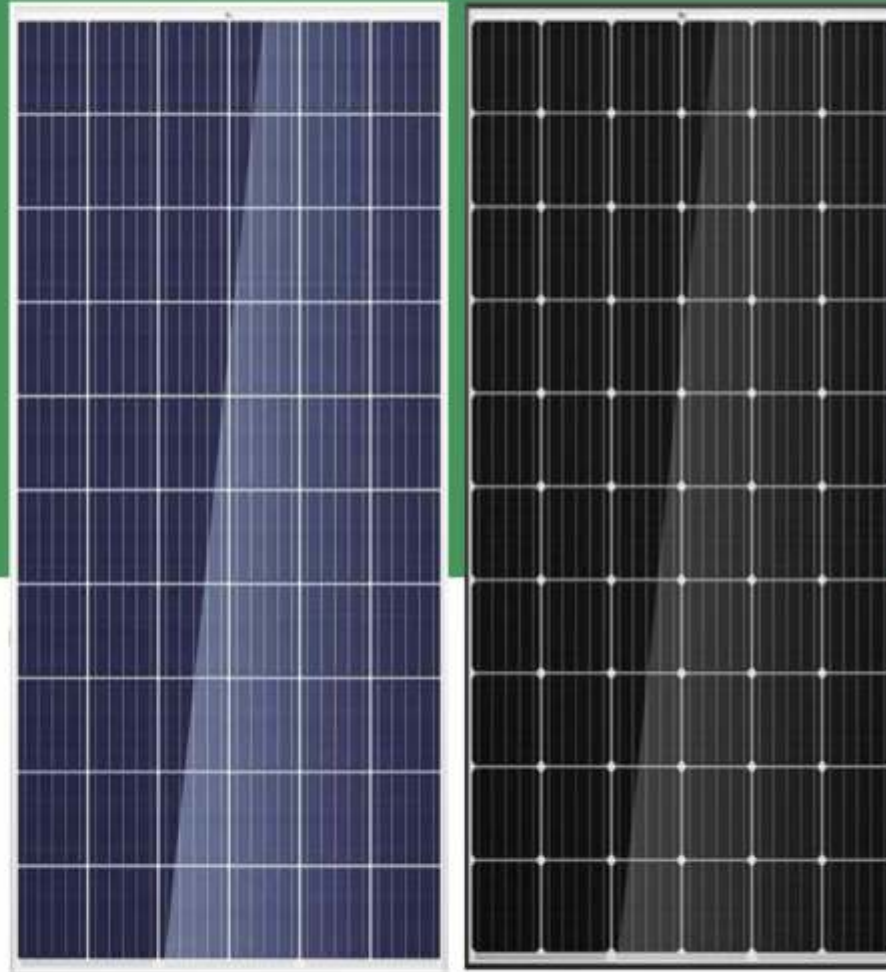
2 YEARS WARRANTY

Technical Specifications

SOLAR INVERTER				
Inverter Rating*1	5KVA	10KVA	15KVA	20KVA
Nominal Battery Voltage*2	48V	120V	240V	240V
No of Phases	1P	1P/3P	1P/3P	1P/3P
Nominal Output Voltage/ Frequency*3	230/400 V +10% & -20% in Grid synchronised mode 50 Hz ± 2%			
Voltage Regulation (in Standalone Model)	± 2%			
Freq. Regulation (in Standalone Model)	± 0.5 Hz			
THD	< than 5%			
Load Power Factor	Unity			
Efficiency (Peak)	88%		90%	
Over Loads: 60 sec/ 30 sec/ 5 sec	110% 125% 150%			
Max Allowed Phase Imbalance (for 3Ph)	NA	30%		
Auto Bypass Feature	Provided			
Parallel Operation with Grid/ DG	Provided			
Grid Synchronisation & Anti-Islanding	Provided			
Grid Charging	Enable / Disable (User Settable)			
Power Export to Grid Facility	Enable / Disable (User Settable)			
SOLAR CHARGE CONTROLLER				
Charge Controller Type	MPPT			
Charger Topology	Buck Type			
PV Nominal Capacity (Total in KW)	Same as Inverter Capacity			
No of MPPT Channels	1			
Max. Open Circuit PV Volts (Voc)	190V	360V	360V/720V	360V/720V
MPPT Upper Range	156V	312V	312V/624V	312V/624V
MPPT Lower Range	66V	165V	165V/330V	165V/330V
Battery type Supported**	VRLA LMLA Ni-Cd Li-Ion Chemistries Flow Batteries			
Peak Charging Efficiency	≥94%			
GRID CHARGER				
Grid Voltage Range (Voltage Sync. Range)	+10 % & -20 % VAC			
Grid Frequency range (Freq. Sync Range)	+5% & -5% Hz			
Max Grid Import Power	as per inverter rating			
Peak Charging Efficiency	up to 85 %			
PROTECTION				
PV Side	Reverse Polarity , Surge Protection (Class D)			
Battery Side	Reverse Polarity , Over/ Under Voltage , Current Limit , Temperature Compensation			
Grid Side	Over/ Under Voltage , Over/ Under Frequency , Surge Protection (Class D)			
Load Side	Overloads , Short circuit			
System Protection	Over Temperature trip , Breakers at all Inputs , Emergency stop			
USER INTERFACE				
Display Interface	Graphical LCD with back light (128*64)			
Setting Input	Membrane Keypad for Settings Input			
Battery Parameters	Voltage, Current, Cumulative Import Energy			
PV Parameters	Voltage, MPPT Charger D/P Amps, Power, Energy, Cumulative Generation			
Grid Parameters	Phase Voltage, Frequency, Power, Power Factor, Reactive Power, Average Power, Peak Power, Cumulative Exported Energy			
Load Parameters	Phase Voltage, Phase Current, Frequency, Power, Power Factor, Average Load, Peak Load			
System level Parameters	Mode of Operation, Active Faults, Heat Sink / IGBT temperature, System Mimic			
LED Indications	Mains On, Alarm, Buzzer Mute			
MONITORING				
RS 485	RS-485 based monitoring showing all parameters through MODBUS			
GPRS(Optional)	GPRS based remote monitoring systems			
SD - Card	DATA LOGGING in Micro SD Card: All parameters can be logged in Micro SD memory card as per date / time. Logged parameter can be viewed / Saved through Laptop / PC.			
MISCELLANEOUS				
Degree Of Protection	IP-21			
Cooling Method	Temp Controlled Force Cooling			
Operating Temperature	0-55 degrees (without Derating)			
Humidity	Max. 95% Non-Condensing			
Altitude	1000m above sea level			
Housing	Floor Standing / Tower Type			
APPROVALS**	IEC 62116, IEC 61727, IEC 61683, IEC 60068-2-11,2,14,30, EN 50530, IEC 60529			



NOW MORE POWER WITH SOLAR



Product | Key Features

AR Coated Tempered Glass
Anti-Reflective Module Surface

Excellent Module Efficiency
Up to 17.26%

Positive Power Tolerance
Up to 5W

IP68 Junction Box for
Long Term Endurance

Quality and Reliability assurance
in standard weather condition

100% EL Tested

Salient Features

- **Positive Power Tolerance:**
Ensures full energy harvesting & quick ROI
- **PID Resistance Technology:**
To eliminate power loss
- **IP 67 rated Mc4 connectors:**
Make Installation Safe and Easy
- MNRE & ICE Certification
- Reliable for all weather condition
- **Least Power Degradation:**
Used High grade Solar cells
- **Highly Efficient:**
Generate power from sunshine to sunset
- **Compatible with all types of Solar systems**
(On Grid, Off Grid & Hybrid)
- RF ID tag available
- Excellent, low light response

Models Available: 40Wp to 440Wp

Applications

All types of Solar Systems (On grid | Off grid | Hybrid | DC system)

- Domestic lighting systems
- Street Lighting
- Water pumping
- Battery charging
- Community TV system
- Microwave repeater station
- Railway signaling and lighting systems
- Power pack for village electrification Approved
- Crop sprayer
- Portable lantern
- Offshore platform
- Sign boards & glow signs
- Desalination Plants MNRE
- Cathodic protection systems
- Rural radio phones and exchanges

Module Type		Polycrystalline						MonoPerc			
Capacity		40Wp	50Wp	75Wp	100Wp	165Wp	330Wp	335Wp	390Wp	400Wp	440Wp
Module size	Length (±10mm)	430	540	775	1010	1490	1970	1970	1970	1970	2115
	Width (±10mm)	665	665	665	665	665	990	990	990	990	1050
	Height (mm)	34	34	34	34	35	40	40	40	40	35
Cells in Series		36	32/36	32/36	32/36	36	72	72	72	72	72X2
Mounting Hole Size oval Shape		7*10	7*10	7*10	7*10	8*12	9*14	9*14	9*14	9*14	9*14
Mounting Hole Pitch X axis in mm		637	637	637	637	630	945	945	945	945	945
Mounting Hole Pitch Y axis in mm		200	300	400	500	750	1175/1400	1175/1400	1175/1400	1175/1400	1175/1400
Diode Rating		6A	6A	6A	10A	15A	15A	15A	15A	15A	20A
Electrical Parameters	Pmax (W)	40.00	50.00	75.00	100.00	165.00	330.00	335.00	390	400	440
	Vmpp (V)	17.00	17.54	17.54	18.00	18.4	38	37.7	41.1	41.5	41.50
	Imp (A)	2.36	2.85	4.28	5.66	8.70	8.7	8.9	9.58	9.65	10.62
	Voc (V)	21.00	20.64	20.64	22.20	22.5	46.3	46.5	49.1	49.1	48.80
ISC (A)		2.55	3.14	4.70	6.00	9	9.24	9.26	10.14	10.25	11.56
Weight(KG)		3	4	6.5	7.75	10.6	22	22	22	22	24.40



THREE WHEELER CNG/LPG KITS



About the Product

Our CNG/LPG kits are designed for Tropical countries, keeping in view Quick start, Power, Acceleration, Mileage, Range, Maintenance cost and Time, Serviceability, Price, Affordability, Durability, Spares, and also the resale value of the vehicle.

The cumulative aspects of the above result in total customer satisfaction with respect to Higher earnings, Higher Return on Investment, and lower Pay Back Period.

SSB is the only company that supplies all the parts of the kits for complete retro fitment ensuring and enabling quality retro fitment quickly. Our kits are pre-tuned and ready for fitment and can be fitted onto the vehicle within a short period of time.

Specific CNG Product for Specific Engine

CNG Performance has to be optimized on each engine. In the case of Three wheelers we have different products for Bajaj, TVS, Piaggio and in Same make we have separate product for 2 Stroke, 4 Stroke, Single Spark Plug, Double Spark Plug, BS- III and BS- IV. Whereas OE suppliers have one common product for all models and brands.

If the right product is not given to the Customer in the new cities the product will not perform and customer will remove the kit and start using Petrol as fuel again.

They will not tell that this is due to bad kit or improper kit they will say CNG is not good, so the final impact to make the CNG as preferred fuel will be defeated.

CNG KIT Fitment on to new vehicles is totally different from Retro fitment, In OE supplies, the Design will be from OEM'S and supplier has to supply accordingly hence they will not be having Expertise/Knowledge in solving Retro fitment issues.

In retro fitment it is a marriage between Petrol Vehicles and CNG kit, Post installation the responsibility of Performance of Vehicle on CNG shifts to Kit manufacturer. We take the full responsibility of the performance of CNG in achieving total customer satisfaction.

Our kits comes with pre-tuning in the factory, which helps in easy and more number of Fitment with the same infrastructure.

High quality: For Example, the metal braided hose that we use instead of steel pipes is 5 to 6 times more expensive but reduces the maintenance down time. This is because steel pipes frequently start leaking due to usage pattern in Three Wheelers. Although the cost of repair is minuscule but the time wasted will be almost half days of earning to get it repaired.

Competition: Our kits can be priced at a higher end than any other kits that can be attempted, the differential price between SSB and other Brands can be 60 USD and more.

Performance Factor	With SSB Kits	With Other Brands
Cold Start	Start with one Crank	Starts with 3-5 Crank
Warm Start	Starts within One Crank	More than one Crank
Idling Stability	Very Good Idling Stability (900 to 1000 RPM)	Generally RPM is above 1300 RPM - Unstable Idling
High RPM	Varies Between 7100 to 7300 RPM	Below 7000 RPM
Flash Spot.	No Flash Spots	Flash Spots may be observed
Die Down	No Die Down	Die Down may be observed
Mileage	More than 24-40% (One road mileage 53 to 64 kms) One road mileage test reports enclosed	Less Milage, On Road mileage reported by customers 38 to 42 kms
Terrain Performance	Easy movement in Hilly Terrain	Difficulty in Hilly Terrain
Power	Good	Average
Over All Performance	Achieves total Customer Satisfaction	Customer concludes CNG is not fit for Three Wheelers. The entire CNG program for Three wheeler will become a non starter and collapse all the Plans of CNG sales.
Consistent performance on all the Vehicles	Guaranteed performance on the vehicles	Not Guaranteed
Maintenance	Very Low Maintenance, down time and cost	High
Different Type of kits	Different kits for various Brands and Models (More than 10 Products for Three wheeler alone)	Only one type of kit available, which has to perform on all Brands and Models of Three Wheeler Ex. Can one Carburetor give performance on all brands and models of Three Wheelers
Bi-fuel Operation	Our kits are designed to perform on both CNG and Petrol fuels	Low mileage reported in Petrol Post conversion to CNG

Container load (CNG): In one 20 feet CNG Cylinder and 400 kits can be accommodated.

Container load (LPG): In one 20 feet container 400 LPG cylinder and 400 kits can be accommodated.

Please note that, SSB kits consist of all the kit components required for completer Retro Fitmen, which is a unique feature of all our products.

Tuk Tuk LPG Kits for Bajaj, TVS, Piaggio are readily available.

In case required for any other Brands/Models kits can be supplied after conducting performance trails and optimization of performance.

1. CYLINDER		
a)	Type	Seamless Gas Cylinder
b)	Working pressure (kg/cm ²)	204 kg/cm ²
c)	Max. test pressure (kg/cm ²)	340 kg/cm ²
d)	Cylinder capacity (Water equivalent)	22 (232 mm dia) & 30 Ltrs (232 & 267 mm dia)
e)	Cylinder Valve(s) (DOE approved/endorsed)	(Part of Cylinder)
f)	Type	Hand Wheel
g)	Working Pressure	205 kg/cm ²
h)	Max. test pressure	300-330 kg/cm ²
i)	Dimension	935 mm length & 232 dia.
2. CNG SOLENOID VALVE		
a)	Type	Electronic
b)	Working pressure (kg/cm ²)	200
c)	Max test pressure (kg/cm ²)	300
3. PETROL SOLENOID VALVE		
a)	Type	200
b)	Working pressure (kg/cm ²)	10
c)	Max test pressure (kg/cm ²)	20
4. REFILLING VALVE		
a)	Type	NVG
b)	Working pressure (kg/cm ²)	200 kg/cm ²
c)	Max test pressure (kg/cm ²)	300-330 kg/cm ²
5. PRESSURE REGULATOR (1st STAGE)		
a)	Type	Plunger
b)	Inlet pressure (kg/cm ²)	208 kg/cm ²
c)	Outlet pressure (kg/cm ²)	4 kg/cm ²
d)	No. of Stages	One
6. PRESSURE REGULATOR (2nd STAGE)		
a)	Type	Diaphragm
b)	Inlet pressure (kg/cm ²)	4.0 kg/cm ²
c)	Outlet pressure (kg/cm ²)	Less than 0.20 kg/cm ²
d)	No. of Stages	Two
7. CNG FILTER		
a)	Type	Conical
b)	Inlet pressure (kg/cm ²)	204kg/cm ² max
c)	Outlet pressure (kg/cm ²)	204 kg/cm ² max
8. LOW PRESSURE TUBING		
a)	Type	Flexible
b)	Working pressure	21 Bar
c)	Max. Test pressure	7 Mpa
d)	Inner Diameter	5/16"
e)	Protection quality (material used)	Single Rayon Braided Hose
9. GAS-AIR MIXER		
a)	Type & Drawing	Orifice
b)	Orifice Size	18 mm
10. ON/OFF SWITCH		
a)	Type	Electronic
11. REFILLING VALVE INTERLOCKING SWITCH		
a)	Type	NZS
12. PRESSURE INDICATOR		
a)	Type	Electronic
13. SERVICE SHUT OFF VALVE		
a)	Type	Manual hand Wheel

Technical Specification of CNG Conversion Kit with Fuel change over system to run on Bi-Fuel CNG as main fuel and optionally on Petrol



CNG CYLINDER



CNG KIT COMPONENTS

1. AUTO LPG TANK		
a)	Max. test pressure (kPa)	3000kPa
b)	Working Pressure (kPa)	2000kPa
c)	Tank Capacity (water equivalent)	20 Ltrs
d)	LPG Capacity	16 Ltrs
e)	Diameter	267 mm
f)	Orientation with Horizontal Plane	0 Degrees
g)	No. of ALT(s) fitted on vehicle	One
h)	Cylinder Dimension	720 mm length and 200 mm dia
2. CYLINDER VALVE / MULTI-FUNCTION VALVE ASSEMBLE (DOE APPROVED / ECE R 67 EQUIVALENT)		
a)	Max. test pressure (kPa)	3000 kPa
b)	Working pressure	1600 kPa
c)	Vapor / Liquid withdrawal	Vapor
d)	Suitable for tank shape & dia	Cylinder & 200 mm
e)	Suitable for tank orientation	30
3. REFILLING VALVE		
a)	Type	Remote Filling
b)	Working pressure (kPa)	1600 kPa
c)	Max test pressure (kPa)	3000 kPa
4. HIGH PRESSURE TUBE		
a)	Type	Flexible Hose
b)	Working pressure (kPa)	2500 kPa
c)	Max test pressure (kPa)	10000 kPa
d)	Outer diameter / Inner diameter	16.95 x 8
5. PRESSURE REGULATOR / VAPORIZER		
a)	Type	Diaphragm
b)	Inlet pressure (kPa)	Read Vapor Pressure
c)	Outlet pressure (kPa)	Less than 20 kPa
d)	No. of stages	One
e)	No. of units	One
6. LPG SOLENOID VALVE		
a)	Type	Remotely controlled
b)	Working pressure (kPa)	1600 kPa
d)	Max test pressure (kPa)	3000 kPa
7. PETROL SOLENOID VALVE		
a)	Type	Eliminator
b)	Working pressure (kPa)	0-400 kPa
c)	Max. test pressure (kPa)	600 kPa
8. LOW PRESSURE TUBING		
a)	Type	Flexible Hose
b)	Working pressure (kPa)	20 kPa
c)	Max. test pressure (kPa)	100 kPa
d)	Protection quality (material used)	18mm x 10 mm
9. GAS-AIR MIXER		
a)	Type	Orifice
10. ON/OFF SWITCH WITH CONTENT GAUGE (ONE UNIT)		
a)	Type	Electronic
b)	Location (Dash./Steering col./handle bar)	Dashboard
11. REFILLING VALVE INTERLOCKING SWITCH		
a)	Including dimensional Layout for tank & other Kit component installations. Difference between Basic model & variants as mentioned in Sr. No. 2	LPG vapor is withdrawn from the Auto LPG Cylinder & is supplied to the regulator. Regulated LPG is supplied to the combustion chamber through the Prime control Unit & Unit & Gas Air Mixer. Magneto-Pneumatic technology is employed for the supply of gas.

Technical Specification of LPG Conversion Kit with Fuel change over system to run on Bi-Fuel LPG as main fuel and optionally on Petrol



AUTO LPG TANK



LPG KIT COMPONENTS