

GP Batteries

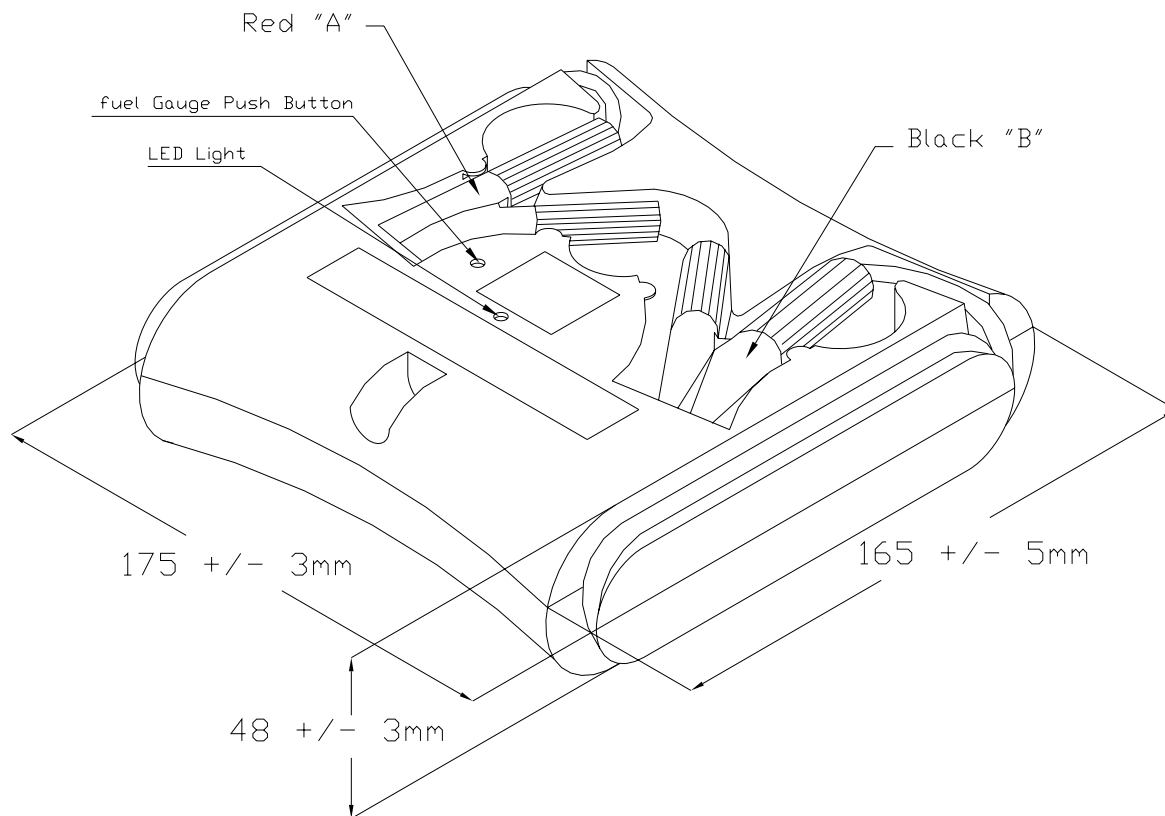
Data Sheet

Model No.: SS103A

Model No.	: SS103A
Application	: 12V Gasoline Engines (up to 3.0L)
Casing Material	: ABS
Color	: Yellow
Battery Type	: 6 cells of 9/5 Sub C Size Lead Acid TMF (Thin Metal Film) batteries, 39 cells of AA alkaline batteries (13 cells inside the compartment for warning alarm & backing up TMF pack; 13 cells welded in series for long storage backup; 13 additional cells provided for customer to change). The alkaline batteries float charge the TMF batteries for a long storage life. The design expectancy is approximately 1 year at 25°C / 77°F.
Nominal Voltage	: 12.0V (TMF pack)
Charge Voltage	: 14.4V (TMF pack)
Maximum Discharge Current	: 900A
Nominal Capacity	: 1Ah
Charger Power	: 10.5W
Continuous Discharge Time	: 7.5 Seconds at 200A
Frequency of cranking between full charges	: 5 times (It is recommended to recharge immediately after each crank).
Operating Temperature Range (Recommended)	: 20 to 25°C (for optimum life; however it can be operated at temperature of -20 to 50°C. Operation at higher or lower temperature will affect battery life or performance).
Storage Temperature Range	: -20 to 25°C (with alkaline batteries back up)
Typical Weight	: 1.66 Kg
Package Weight	: 2.53 Kg
Charge Duration	
- With Car Alternator	: 3 minutes after each successful crank (to allow a top up charge of the SS103A in case of reuse within short time)
- With Wall Adaptor	: at least 4 hours continuous charging
- With Car Adaptor	: 4 hours cumulatively charging with engine running. (Recommend to recharge SS103A with either the car adaptor or wall adaptor continuously to keep battery at full charge. It is also recommended to recharge SS103A every month when not in use to enhance the backup life.)
Other Features:	
Audible Charge-Minder	: Reminder for recharge & alkaline batteries replacement.
LED Fuel Gauge Indicator:	
- when charging	: RED - FAST Charging GREEN - SLOW Charging (ready)
- when storage	: GREEN - Ready to jumpstart ORANGE - Recharge is needed RED - Immediately recharge and replace 13 x AA alkaline batteries.
Safety	: Do not allow both the positive (red) and negative (black) clamps to come into contact.

Actual performance characteristics may vary depending on vehicle, environmental conditions, operation and care.

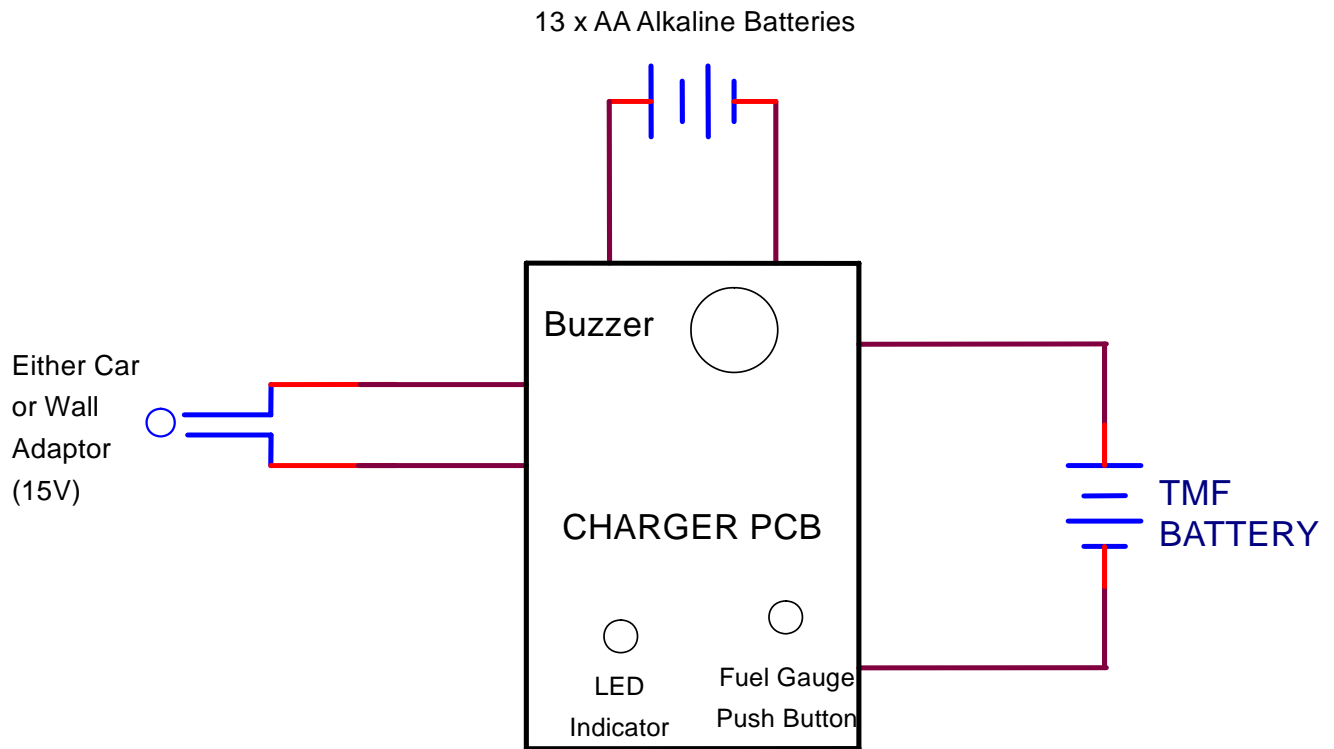
Mechanical Drawing:



Remarks: For reference only. For details, please refer to engineering drawings.

Check Point		Specification
Open Circuit Voltage	A-B	12.8V min. (A is +ve terminal)
Direct Current Internal Resistance	A-B	24 mΩ Max.

Circuit Diagram (Block Diagram):



Remark: For reference only. For details, please refer to BOM & circuit drawing.