# 2.12 LOW OIL PRESSURE SHUTDOWN SYSTEM

The engine is equipped with a low oil pressure sensor that shuts down the engine automatically when the oil pressure drops below 5 psi. A delay built into the low oil shutdown system allows oil pressure to build during starting. The delay allows the engine to run for about 10 seconds before sensing oil pressure. If the engine shuts down by itself and the fuel tank has enough gasoline, check engine oil level.

#### 2.12.1 RESTARTING

If trying to restart the engine within 10 seconds after it shuts down, the engine may NOT start. The system needs five (5) to 10 seconds to reset.

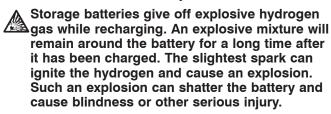
If the engine is restarted after such a shutdown and the low oil pressure has not been corrected, the engine will run for about 10 seconds as described above and then stop.

## 2.13 CHARGING THE BATTERY

#### ▲ DANGER!



Do not permit smoking, open flame, sparks or any other source of heat around a battery. Wear protective goggles, rubber apron and rubber gloves when working around a battery. Battery electrolyte fluid is an extremely corrosive sulfuric acid solution that can cause severe burns. If spill occurs flush area with clear water immediately.



Use battery charger plug to keep the battery charged and ready for use. Battery charging should be done in a dry location.

- 1. Plug charger into "Battery Charger Input" jack, located on the control panel. Plug wall receptacle end of the battery charger into a 120 Volt AC wall outlet.
- 2. Unplug battery charger from wall outlet and control panel jack when generator is going to be in use.

#### NOTE:

Do not use the battery charger for more than 48 hours at one charge.

# 3.1 PERFORMING SCHEDULED MAINTENANCE

It is important to perform service as specified in the Maintenance Schedule for proper generator operation, and to ensure that the generator complies with the applicable emission standards for the duration of its useful life. Service and repairs may be performed by any capable person or repair shop. Additionally, emissions critical maintenance must be performed as scheduled in order for the Emissions Warranty to be valid. Emissions critical maintenance consists of servicing the air filter and spark plugs in accordance with the Maintenance Schedule.

### 3.2 MAINTENANCE SCHEDULE

Follow the calendar intervals. More frequent service is required when operating in adverse conditions noted below.

Check Oil Level Change Oil and Oil Filter‡ Clean Spark Arrestor Screen Service Air Filter Replace Spark Plug At Each Use \*Every Season/Every 100 Hours \*Every Season/Every 100 Hours \*Every Season/Every 200 Hours \*Every Season/Every 100 Hours

Change oil after first 30 hours of operation then every season.

 Change oil and oil filter every month when operating under heavy load or in high temperatures. Clean or replace more often under dirty or dusty operating conditions. Replace air filter parts if very dirty.

## 3.3 PRODUCT SPECIFICATIONS

#### 3.3.1 GENERATOR SPECIFICATIONS

Rated Max. Power Surge Power Rated AC Voltage Rated Max AC Load	12.5 kW
Current @ 240V	41.6 Amps**
Current @ 120V	83.3 Amps**
Rated Frequency	60 Hz @ 3600 RPM
Phase	Single Phase
Rated DC Voltage	12 Volts
Battery Type	
** Maximum wattage and current are subject to, and limited by, such factors	

\* Maximum wattage and current are subject to, and limited by, such factors as fuel Btu content, ambient temperature, altitude, engine condition, etc.. Maximum power decreases about 3.5% for each 1,000 feet above sea level; and will also decrease about 1% for each 6° C (10° F) above 16° C (60° F) ambient temperature.

#### 3.3.2 ENGINE SPECIFICATIONS

Displacement Spark Plug Type Spark Plug Gap Gasoline Capacity Oil Type	A
Oil Capacity	w/ Filter Change = $1.8$ Qts.
	w/o Filter Change = $1.5$ Qts.
Run Time/Fuel Consumption-1/2 Load 10 Hours / .73 gallons per hour	
Class II Emission Certified	