

- Four-pole alternator
- Main line UL listed circuit breaker - Refer to Appendix 4 for the size of this breaker on generator of each new equipment enclosure type
- Fuel shut-off solenoid valve
- Engine coolant heater
- Solenoid activated starter motor
- Battery charging alternator and cables
- Air cleaner and oil filter with internal bypass
- Oil and antifreeze with drain extensions
- Vibration isolators between engine/alternator and base frame
- Cool flow radiator with fan guards with air duct adapter
- Critical muffler and flex exhaust
- 16 Function Remote Relay Panel, Surface Mtg and Engine Run Relay
- 12vDC Battery

#### **8.3.3.2.10 12vDC Battery Charger Transfer Switch Specifications**

One (1) Transfer Switch with standard features to include:

- ATS Size: - Refer to Appendix 4 for ATS size on each new equipment enclosure type
- Time delay neutral with in phase monitor and safety disconnect switch
- System voltage - Refer to Appendix 4 for output voltage type on each new equipment enclosure type.
- Utility voltage sensing controls:
  - Drop-out and pick-up (70 to 95% adjustable)
  - Utility interrupt delay (.1 to 10 seconds adjustable)
- Two wire start system with adjustable logic control and deluxe exerciser
- NEMA 12 enclosure

#### **8.3.3.2.11 ~~External Generator Receptacle (Mod. #1 Rev.)~~**

- ~~• One (1) generator receptacle with manual transfer switch for exterior generator portable hookup. Refer to Appendix 4 "STARS Transmitter Sites Matrix" for size and voltage of this receptacle on each new equipment enclosure type. (Mod. #1 Rev.)~~

#### **8.3.3.2 Uninterruptible Power Supply Specifications**

In order to provide uninterrupted operation of the LMR and data equipment for up to 15 minutes upon loss of power until generator powers up or the electrical service stabilizes, Motorola has provided UPS equipment at these sites for backup power. Additionally, these UPS units will also protect the equipment from transients and other power irregularities on the supply line. Motorola is offering two main types of UPSs in the LMR sites.