








⚡ 2. Pre-Start Checklist for Rental Generator Units

Purpose:

To verify that every diesel generator unit is safe, serviced, and ready for operation before starting. This checklist helps ensure proper functionality, reduce breakdown risk, and maintain customer satisfaction for rental fleets.

General Information

-  Generator ID / Unit No.: _____
 -  Client / Site Name: _____
 -  Date: _____
 -  Technician Name: _____
 -  Engine Model / Capacity (kVA): _____
-

1:Electrical & Battery System


Battery voltage (fully charged)

Cables properly connected and terminals tight

Charger functional and indicator lights normal

Fuses and protection devices intact

Control panel display and meters operational

 Tip: Low voltage at startup often signals a weak or sulfated battery — always test with a multimeter.

2:Fuel & Lubrication

Fuel level adequate for required runtime

No fuel leaks from hoses, joints, or injectors

Fuel filters clean / replaced if needed

Engine oil level checked via dipstick


No visible oil leaks or contamination

 Note: Use only approved diesel and maintain separate storage for standby units to prevent water ingress.



3: Cooling & Air System

- Radiator coolant level topped up
- Fan belts tight and free of cracks
- Air filter element clean
- No obstructions near radiator airflow path
- Water pump and hoses leak-free

 **Reminder:** Check coolant mixture ratio (typically 50/50) — prevents overheating and corrosion.


4: Mechanical Inspection

- All bolts, clamps, and mounts tightened
- Engine and alternator coupling aligned
- Exhaust connections tight and free of leaks
- Flexible hoses and vibration pads in place
- No abnormal vibration or loose fittings

 **Tip:** Always re-torque major fasteners after transport or relocation.


5: Electrical Connections & Controls

- Main cables properly terminated
- Load cables identified and secured
- Grounding system connected and tested
- Control mode (manual/auto) verified
- Emergency stop button tested

 **Note:** Verify ATS (Automatic Transfer Switch) signal wiring for auto-start compatibility.

6: Safety & Environment

- Generator area clear of debris and combustible material
- Fire extinguisher available and accessible
- Adequate ventilation at site
- Noise and emission control measures in place
- Operator PPE (helmet, gloves, ear protection)

 **Reminder:** Safety first — never operate without confirming ventilation and grounding.





7: Documentation & Final Review

All inspection fields filled correctly

Any issues noted and reported to supervisor

Pre-start signature verified by site in-charge

 Technician Signature: _____

 Client / Supervisor Signature: _____

Why This Matters

Completing this pre-start checklist reduces the risk of failure, ensures smooth startup, and builds trust with every rental client.

Keep this record stored digitally (PDF or cloud) for audit and warranty reference.
