

Nassim Baabdat Project Lebanon

Application Sheet

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Nassim Baabdat Project

Nassim Baabdat is a complex of 16 nice triplex villas located in a green valley inside a pine forest surrounded by beautiful Lebanese mountains.

System description

The standby power supply for the 16 villas erected in this area is provided from a generator room fully treated with sound attenuators (sound level: 64 dBA measured at one meter in open air):

The generators room includes:

- 3 electric packaged generator sets powered by Volvo Penta engines, coupled to Stamford alternators operating at 1500 RPM, 50Hz, 220/380V, 0.8PF
- 2 units each rated 500 KVA prime power with ECU: Engine Model TAD1641GE.
- 1 unit rated 250 KVA prime power with GAC electronic governor: Engine Model TAD740GE.
- 1 fully manual / automatic, paralleling /synchronized switchboard controlled by IG-Volvo in case of the electronic engines and standard IG-MINT for the third engine
- electric contactors with totalizing bus bars and 3 pole air circuit breaker.

The system operates upon mains failure, the generators will start and stop according to the load demand.

For TAD1641GE the engine speed and start/stop is controlled from the IG controller via CAN communication to ECU.

Generator sets, room sound treatment and switchboards are completely assembled and installed by Lebanese distributor **Jabbour Power sarl**

System schematic





Photographs from the side

Villas





Switchgears with ComAp controllers





Volvo Penta engine





Customer feedback

"We congratulate M/S Jabbour Power for all the efforts they spare during the last 12 months to erect the soundless generator power plant, powered by Volvo Penta Engines and controlled by the powerful ComAp modular controllers. The good cooperation along with the skillfulness in the execution give us full satisfaction. Congratulations for your marvelous and great success." Project Manger the engineer Mr. Walid Chami



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