



DISCOVER PRODUCTS

- 9 x 48-48-5120, AES RACKMOUNT Battery Modules
- 2 x AES RACKMOUNT Battery Module Combiners (950-0049)
- 11 x Quick Stack Racks (950-0050)
- 1 x LYNK II (950-0025)

OTHER EQUIPMENT

- 2 x Victron Quattro 48/5000/70-100/100 120V
- 2 x Victron SmartSolar MPPT RS 450/100 TR Charge Controllers
- 34 x JA Solar 395W Panels
- 1 x 12 kVA Kubota Diesel Genset Outfitted with a GC10 auto start kit

APPLICATION

Off-Grid Residence

REQUIREMENT

Off-grid installation, AC power output of 10 kVA, integrated with backup generators

OVERVIEW

Discover AES RACKMOUNT 48-48-5120

North Eleuthera, an outer island in the Bahamas, is the location of a farm house that was converted into a vacation home, located 10 miles away from the nearest power line. Whenever power was required, the home was powered by rotating a pair of 12 kVA diesel generators. Solar Freedom was called in to design an easy to install off-grid solar power system that could be monitored remotely, fully integrated with a backup generator, with a minimum power output of 10 kVA, to replace the aging diesel generators.

The solution was two Victron inverters and two MPPT charge controllers operating in a closed-loop configuration through a Discover LYNK II Communication Gateway with nine AES RACKMOUNT lithium batteries, with 34 JA Solar panels and a backup 12 kVA Kubota diesel generator. Victron's VRM platform would provide the remote monitoring to create a window into the solar system's operations.



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